

February 17, 2006

State of Utah
Division of Oil, Gas & Mining
Attn: Diana Whitney
1594 West North Temple - Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill: 1-19-9-16, 2-19-9-16, 3-19-9-16, 4-19-9-16, 1-20-9-16, 3-20-9-16, 9-20-9-16, and 4-21-9-16.

#### Dear Diana:

Enclosed find APD's on the above referenced wells. The proposed Federal 1-19-9-16 is an Exception Location. Our Land Department will send you the required Exception Location Letter. If you have any questions, feel free to give either Shon Mckinnon or myself a call.

Sincerely

Mandie Crozier

Regulatory Specialist

mc

enclosures

RECEIVED FEB 2 1 2006

DIV. OF OIL, GAS & MINING

Form 3160-3 (September 2001)			OMB No	APPROVED . 1004-0130 mary 31, 20	6		
UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANAC	5. Lease Serial No. UTU-52018						
	APPLICATION FOR PERMIT TO DRILL OR REENTER						
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	N/A	·					
1a. Type of Work: DRILL REBNTER	7. If Unit or CA Agre	eement, Na	me and No.				
1b. Type of Well: Oil Well Gas Well Other	Single Zone 🔲 Multi	ple Zone	8. Lease Name and V Federal 1-20				
Name of Operator     Newfield Production Company			9. API Well No. 43.	013-3	33066		
3a. Address	3b. Phone No. (include area code)		10. Field and Pool, or	•	у		
Route #3 Box 3630, Myton UT 84052	(435) 646-3721		Monument Bu		Cumian on Anao		
4. Location of Well (Report location clearly and in accordance with At surface NE/NE 617' FNL 652' FEL 573779	any State requirements.*)  40, 021886		11. 360., 1., K., M., U	Dik. and S	survey of Afea		
	44 -110.135419		NE/NE Sec. 2	0, <b>T</b> 9S R	16E		
14. Distance in miles and direction from nearest town or post office*			12. County or Parish		13. State		
Approximatley 15.2 miles southwest of Myton, Utah	T	T	Duchesne		UT		
<ol> <li>Distance from proposed*         location to nearest property or lease line, ft.         (Also to nearest drig. unit line, if any)         Approx. 652' f/lse, NA' f/unit     </li> </ol>	16. No. of Acres in lease 640.00	17. Spacin	g Unit dedicated to this 40 Acres	well			
18. Distance from proposed location*	19. Proposed Depth	20. BLM/I	M/BIA Bond No. on file				
to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1369	6040'	(	UTB000192				
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will sta	rt*	23. Estimated duratio	n			
6038' GL	2nd Quarter 2006	Approximately seven (7) days from spud to rig release.			g release.		
· · · · · · · · · · · · · · · · · · ·	24. Attachments						
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, shall be at	ached to this	s form:		-		
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>	I ands the Item 20 above). 5. Operator certific	ation. specific info	ns unless covered by an ormation and/or plans a	Ü			
25. Signature Jamelier Cursuin	Name (Printed/Typed) Mandie Crozier		!	Date 2/17	/06		
Title Regulatory Specialist	· · · · · · · · · · · · · · · · · · ·				,		
Approved by Signatura	NamBRADLEY G			Date 02-	-23-06		
Title	Office						
Application approval does not warrant or certify the the applicant holds le operations thereon.  Conditions of approval, if any, are attached.	gal or equitable title to those rights in	the subject I	ease which would entitle	the applic	ant to conduct		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it States any false, fictitious or fraudulent statements or representations as to		d willfully t	o make to any departme	nt or ageno	ey of the United		

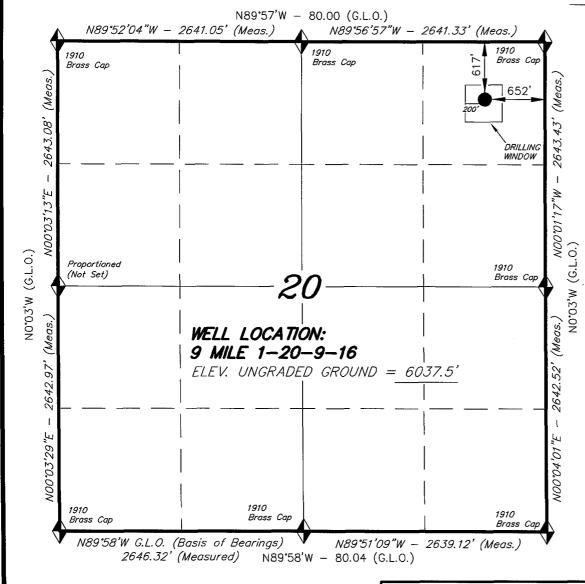
Federal Approval of this Action is Necessary

\*(Instructions on reverse)

RECEIVED FEB 2 1 2006

DIV. OF OIL, GAS & MINING

### T9S, R16E, S.L.B.&M.



= SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SW) 9 MILE 1-20-9-16 (Surface Location) NAD 83 LATITUDE = 40° 01' 18.99" LONGITUDE = 110° 08' 09.95"

#### NEWFIELD PRODUCTION COMPANY

WELL LOCATION, 9 MILE 1-20-9-16, LOCATED AS SHOWN IN THE NE 1/4 NE 1/4 OF SECTION 20, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT OFFE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND FELIE No.189377

#### TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501

` ,	
DATE SURVEYED: 12-31-05	SURVEYED BY: C.M.
DATE DRAWN: 01-04-06	DRAWN BY: L.C.S.
REVISED:	SCALE: 1" = 1000'

#### NEWFIELD PRODUCTION COMPANY FEDERAL #1-20-9-16 NE/NE SECTION 20, T9S, R16E DUCHESNE COUNTY, UTAH

#### ONSHORE ORDER NO. 1

#### **DRILLING PROGRAM**

#### 1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

#### 2. <u>ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:</u>

Uinta 0' – 2600' Green River 2600' Wasatch 6040'

#### 3. <u>ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:</u>

Green River Formation 2600' - 6040' - Oil

#### 4. <u>PROPOSED CASING PROGRAM</u>

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

#### 5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "C".

#### 6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

#### 7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

#### 8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

#### 9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

#### 10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

#### NEWFIELD PRODUCTION COMPANY FEDERAL #1-20-9-16 NE/NE SECTION 20, T9S, R16E DUCHESNE COUNTY, UTAH

#### ONSHORE ORDER NO. 1

#### MULTI-POINT SURFACE USE & OPERATIONS PLAN

#### 1. <u>EXISTING ROADS</u>

See attached Topographic Map "A"

To reach Newfield Production Company well location site Federal #1-20-9-16 located in the NE 1/4 NE 1/4 Section 20, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southwesterly – 10.9 miles  $\pm$  to it's junction with an existing road to the southeast; proceed southeasterly – 2.0 miles  $\pm$  to it's junction with an exiting road to the northeast; proceed northeasterly – 0.4 miles  $\pm$  to it's junction with the beginning of the proposed access road; proceed along the proposed access road – 1,570' $\pm$  to the proposed well location.

#### 2. PLANNED ACCESS ROAD

See Topographic Map "B" for the location of the proposed access road.

#### 3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

#### 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

All permanent surface equipment will be painted Carlsbad Canyon.

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

#### 5. LOCATION AND TYPE OF WATER SUPPLY

Please refer to the Monument Butte Field SOP. See Exhibit "A".

#### 6. <u>SOURCE OF CONSTRUCTION MATERIALS</u>

Please refer to the Monument Butte Field SOP.

#### 7. <u>METHODS FOR HANDLING WASTE DISPOSAL</u>

Please refer to the Monument Butte Field SOP.

#### 8. ANCILLARY FACILITIES

Please refer to the Monument Butte Field SOP.

#### 9. <u>WELL SITE LAYOUT</u>

See attached Location Layout Diagram.

#### 10. PLANS FOR RESTORATION OF SURFACE

Please refer to the Monument Butte Field SOP.

#### 11. SURFACE OWNERSHIP - Bureau Of Land Management

#### 12. OTHER ADDITIONAL INFORMATION

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #05-225, 7/13/05. Paleontological Resource Survey prepared by, Wade E. Miller, 11/10/05. See attached report cover pages, Exhibit "D".

For the Federal #1-20-9-16 Newfield Production Company requests 1,570' of disturbed area be granted in Lease UTU-52018 to allow for construction of the proposed access road. Refer to Topographic Map "B". The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Newfield Production Company requests 1,570' of disturbed area be granted in Lease UTU-52018 to allow for construction of the proposed gas lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a buried 6" gas gathering line, and a buried 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

Newfield Production Company requests 1,570' of disturbed area be granted in Lease UTU-52018 to allow for construction of the proposed water lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

#### Water Disposal

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

Threatened, Endangered, And Other Sensitive Species Golden Eagle: Lease Notice Only.

#### Reserve Pit Liner

A 12 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

#### Location and Reserve Pit Reclamation

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Crested Wheatgrass

Agropyron Cristatum

4 lbs/acre

Needle and Threadgrass

Stipa Comata

4 lbs/acre

Indian Ricegrass

Oryzopsis Hymenoides

4 lbs/acre

#### **Details of the On-Site Inspection**

The proposed Federal #1-20-9-16 was on-sited on 11/3/05. The following were present; Shon Mckinnon (Newfeild Production), Melissa Hawk (Bureau of Land Management), and Amy Torres (Bureau of Landmanagement). Weather conditions were clear and ground cover was 100% open.

#### 13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

#### Representative

Name:

Shon Mckinnon

Address:

Route #3 Box 3630

Myton, UT 84052

Telephone:

(435) 646-3721

#### Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #1-20-9-16 NE/NE Section 20, Township 9S, Range 16E: Lease UTU-52018 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

2/17/06

Date

Mandie Crozier

Regulatory Specialist

Newfield Production Company

#### NEWFIELD PRODUCTION COMPANY 9 MILE 1-20-9-16 Section 20, T9S, R16E, S.L.B.&M. PREVALING WIND F/0.4 TOPSÖIL STOCKPILE (4) F/1.0 STA. 2+90 PIT TÖPSÖIL STOCKPILE C/0.1 50 Toe of \_\_\_ Fill Slope STA. 2+22 2' Berm Around Fill Portion of Location C/1.0 RESERVE F/2.2 29' (5) 120' (8' Deep) STA. 1+60 (D) C/1.8 WELL HEAD: UNGRADED = 6037.5'FIN. GRADE = 6036.5EXCESS MATERIAL Top of Cut Slope STA. 0+00 8 *F/3.0* PROPOSED ACCESS . REFERENCE POINTS ROAD (Max. 6% Grade) 170' NORTHERLY 6033.4' 220' NORTHERLY 6029.9' (435) 781-2501 TriState1" = 50'SCALE: SURVEYED BY: C.M. Land Surveying, Inc. 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 01-09-06 L.C.S. DATE: DRAWN BY:

## NEWFIELD PRODUCTION COMPANY CROSS SECTIONS 9 MILE 1-20-9-16 20, П STA. 2+90 1" = 50'20, П STA. 2+22 1" = 50'EXISTING GRADE FINISHED GRADE 20, WELL HOLE 1" = 50'STA. 1+60 20, II 1" = 50'STA. 0+00

UNLESS OTHERWISE NOTED ALL CUT/FILL SLOPES ARE AT 1.5:1

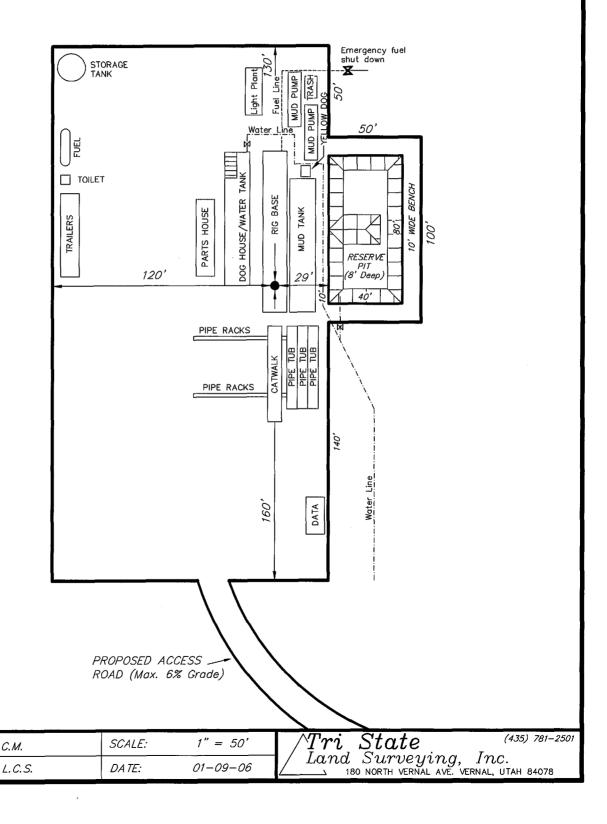
	ESTIMATED EARTHWORK QUANTITIES
i	(No Shrink or swell adjustments have been used)
	(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	1,240	1,240	Topsoil is not included	0
PIT	640	0	in Pad Cut	640
TOTALS	1,880	1,240	970	640

SURVEYED BY:	C.M.	SCALE:	1" = 50'
DRAWN BY:	L.C.S.	DATE:	01-09-06

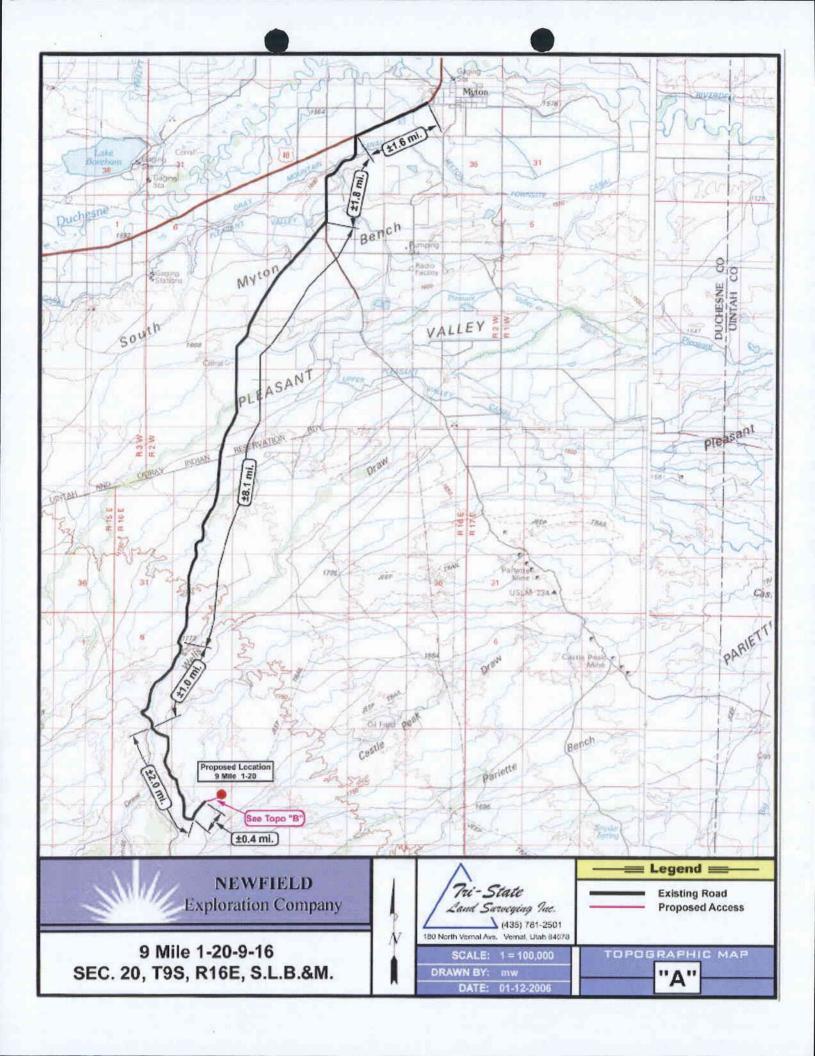
$\wedge Tri$	State	 (435)	781-250
	Survey	Inc.	
	O NORTH VERNA		34078

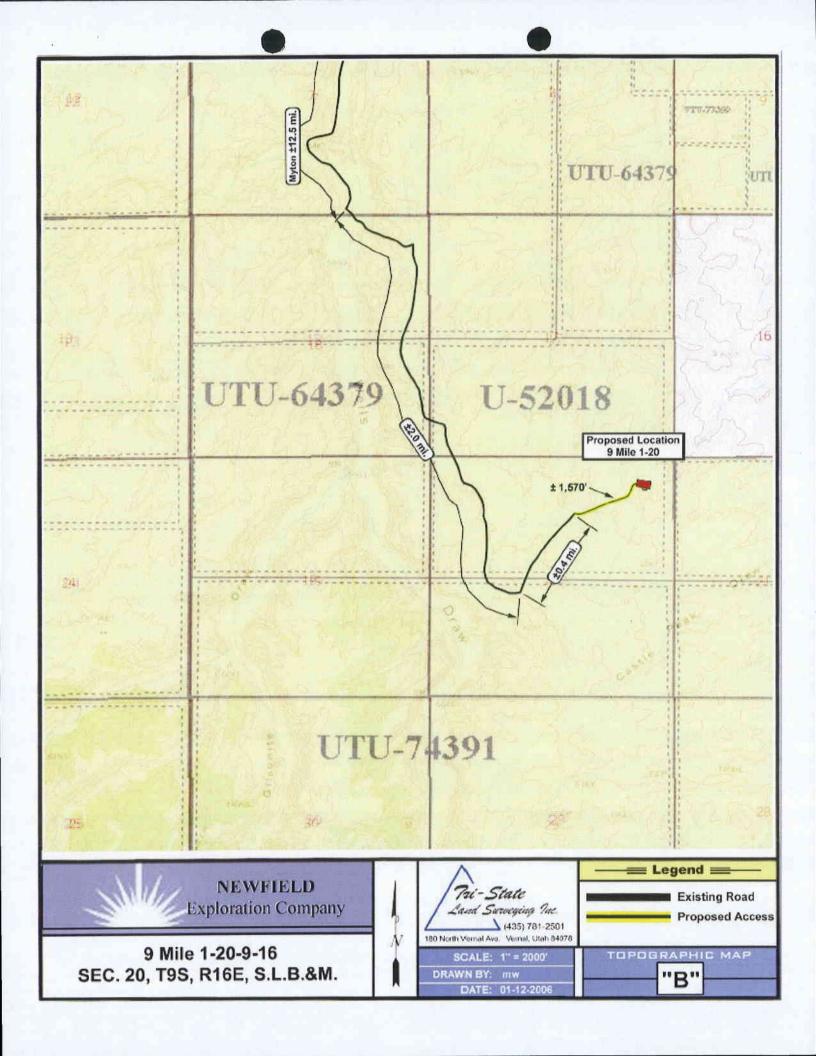
# NEWFIELD PRODUCTION COMPANY TYPICAL RIG LAYOUT 9 MILE 1-20-9-16

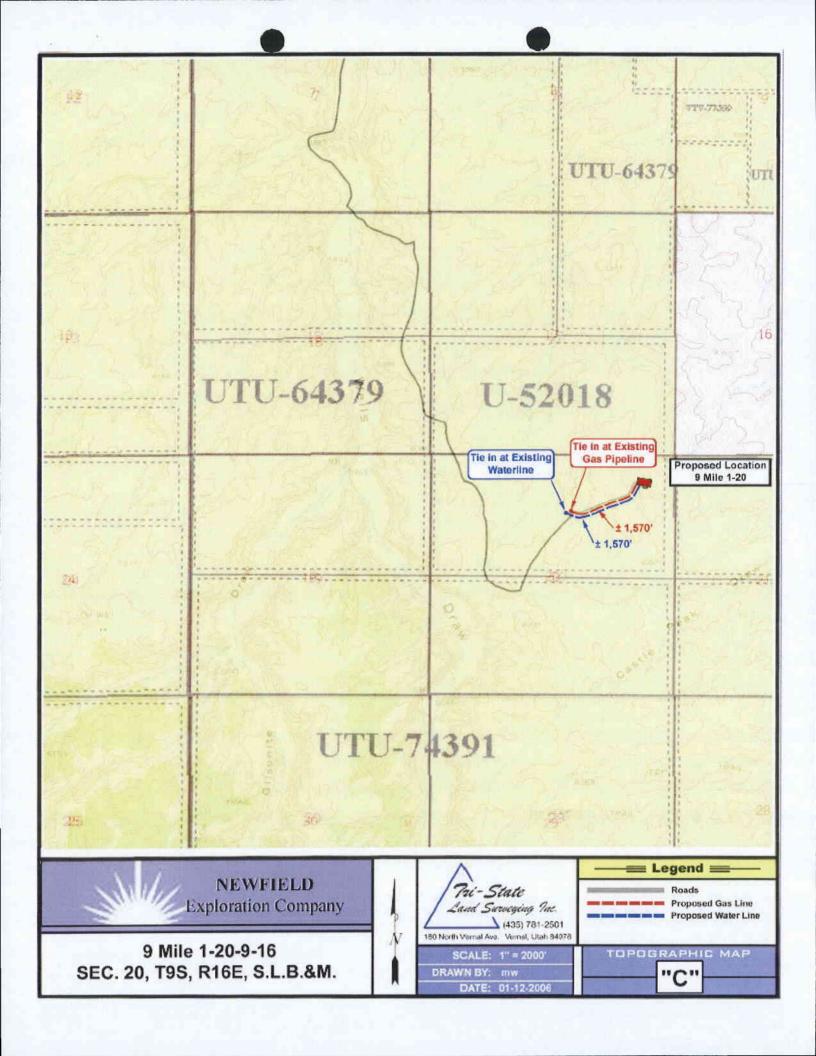


SURVEYED BY:

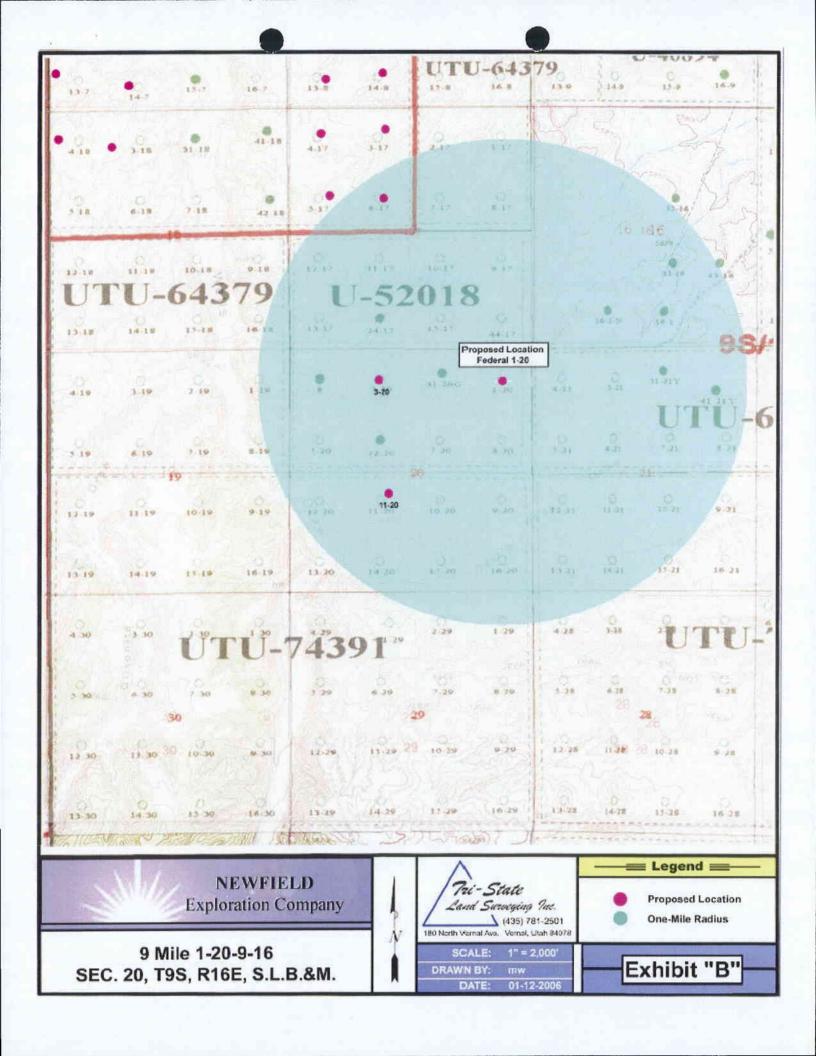
DRAWN BY:





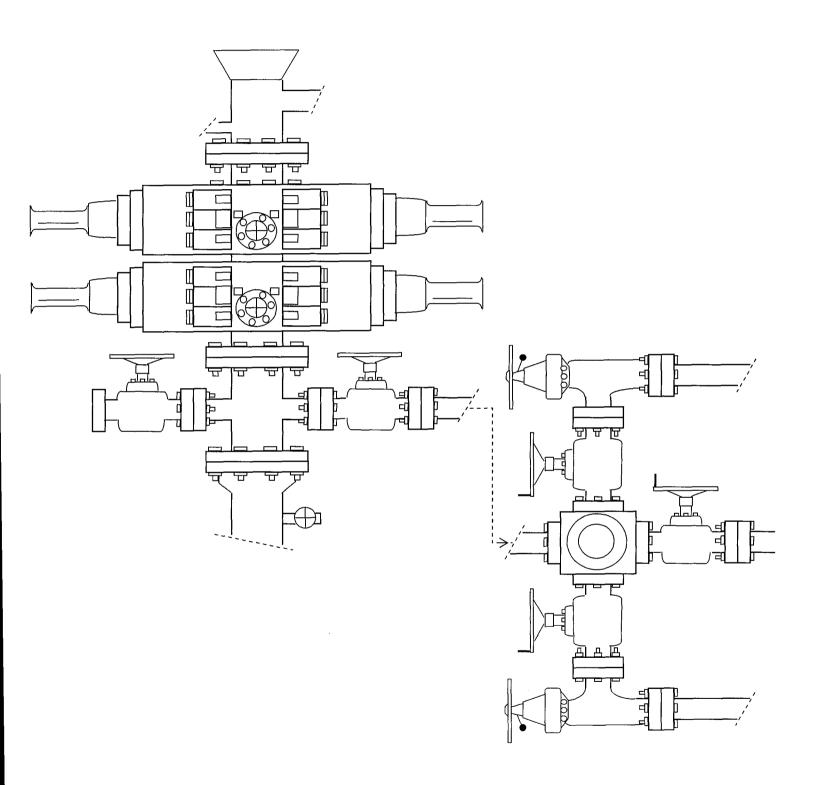


8	10	11	12	₹ <b>7</b>	8	9	10	11	12	7			10	***	12	7	8	9	Newfield Wells  Location Surface Spud	
18	16	14	13	18	97	16 T45	s-R2W	14	13	18	17	16	15 IS-R1W	14	13	18	17	16	Drilling     Waiting on Comple     Producing Oil Well     Producing Gas Well	ell
21	22	45-R3W	24	19	20	21	22	23	24	524 534 18	20	21	22	23	24	19	20	T45-R1		doned
28	27	28	28	30	23 21	28	Hawtaye	10-23 5-23	13 324 324 124 24 224 124 24 224 224 324 24 224 224 324	หลือ	20 620 fan 620 fa	7 E <sub>21</sub> 13 7 e <sub>21</sub> 21 10 e <sub>21</sub> 621	. / .	1 133.03 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	26 26 24 734 634 24 1034 634 24 1034 634	30	20 21	8 26	Water Source Wei     Water Disposal W     Injection Stations     UnitOutlines	/ell
33	34	25	35 215E	78S-R16	29 Trevis	10.20 Ga	27 527 62	6 528 226 (28 6 628 128 626 7 128 626 (28	125 225 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	30 630 630 630 30 630 630 630 30 630 630 630 30 630 630 630	28 5.29 7.29 6.29 6.29 6.29 7.29R 6.20 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7	28 6-28 / 5-28 28 6-28 / 28 10-28 6-28	2 / 121 (2) 12 21 / 121 (2) 12	20 A20 A20	225 1200 635 25 1200 635 25-20 630	23-30	85-R18 21 6% 25% 162 65% 262 65%	28	27 day 15-26 35-26	35
T55	R3W	3-35A 36	1/36 West	31 532 233 10 32 233	2 35-32 6-32 28 28 28 28 28 28 28 28 28 28 28 28 28	38 33-338 / 3-348	50 50 (0 10 50 70 50 50 1 50 50 50	8 36 36 831 835 335 831 85 35 1639 331	1.00 (30 (30 (30 (30 (30 (30 (30 (30 (30 (	20 531 231 631 231 631 631 831 2311131 " 831	13224-32 14-32 52 532 /32 532 132 532 /32 532	11-33 10-33 p-33 12	34 534 734 534 34 534 734 534	5 Sa 2/36	736 036 /36 638 736 036 /36 638	231 331 131 231 631 731831 31 1031 831 31	32 332 328 32 332 432 832 32 632 332 832	33	34 42340 135235 335 4 34 4334 335 43	1 2
8	2 12	142102 02 01	24 24 24 24 24 24 24 24 24 24 24 24 24 2	6 7 20 7 20 10 10 10 10 10 10 10 10 10 10 10 10 10	154 (1	3 6 6 63	33 (a) 63 113 143	Marineta Bala	2 6 2 2 6 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Land the state of	14 21 5,5 13 24 24 76 98 106 226 16	114 194 84 144 194 84 144 184 84 14 184 84	3 20 5 30 12 3 30 16 30 15	12 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1	11.4 18.1 50 11.4 18.1 50 11.4 18.1 51 12. 18.2 28.2 28.1	20 16 24 3	5 63 63 78 23 13 18 18 18	484 64 74 84	3 63 262	1
118	15 Cm 11 20 M 10 M 10 M	1 391 291 61 62: 691 61 61 62: 11-11 1891 61 692	12 292 612 67 20 612 612 167 1012 61 127	5 3 4 6 3 3 6 3 6 6 20 6 20 6	11-8 / 11-8 si	ax cold	8-10 Mg /R	71 511 511 611 111 32111 111 32111 3 4511.	12 121 12 121 1 2 121 1 2 121	121 30 31-21 7A 10-21 31-21 31-21 11-7 10-7 43-7 13-7 18-7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20H 22 H 20 W 21 20H 22 H 20H 20 20H 20 H 20H 20 14 H 20H 20H 20H	107 22-10 10 B	31	1.42 6.12 7.42 6.42 12 12.12 11.42 10.12 1.43 10.12 11.42 10.12 1.43	మ మ మీ మీ మీ చి చే మీ మీ మీ మ్ మీ మీ	8 7-8 12-8 12-8	9 3-15 1-15	10 670 11	12
H	18 10:05 0:15 T	4 54 24 114 43 4 64 24 Bla 13 4 114 8 24 125	673 273 673 13 1373 1073 673	31-Apy - 11 5		16 15	2015 2015	3 2/Jaa 2 4/Ja 34 634 234 634 14 34 1134 1034 634	21-13Y 2-13 F10	18 298 618	11-17 31-17 12-17 12-17 12-17 12-17 13-17	166 276 276 276 2168 10-18 164	11-18 10-18	14		18 18 11-18 P-11	17 17 17 17 17 17 17 17 17 17 17 17 17 1	16	is 14	13
28 5-22		23 323 233 123 234 3 723 234 24 223	34 34 34 34 35 R 15F	19 20	3420 2620 TG - F	3421 / 45 21 R16E	22	23 6-23 7-23 10-23 8-23	1534 24	19 1-10	20-1 20	21 19S-R1	22 22 22 22	23	24	19 42-1 43-1	28 22-20Y	46-219	22 23 S-R18E	24
33	27	29 T	25	30	29	28	27	28 7-26	21-28Y 25	30	29	28	27	26	28	30	28 26-29	28	27 28	25
-	34	35	38	31	32	33	34	35	36	31	32	33	34	36	33	31	32	33	ROCKY MOUNTAINS Exhibit A	+
T1	0S-R	5E <sub>2</sub>	0	8	8	4	а	2 T10S-F	16E	T10	S-R17E	•	3	2	A	T10	S-R188		Duchmane & Ulintah Counties  Vasar Budding To Savel Budding To Savel Budding To Concepts 02005-1247 (1903) 863-0102	Decay A Min



2-M SYSTEM

Blowout Prevention Equipment Systems



**EXHIBIT C** 

Exhibit "D"

Page 10f2

CULTURAL RESOURCE INVENTORY OF NEWFIELD EXPLORATION'S BLOCK PARCEL IN TOWNSHIP 9S, RANGE 16E, SECTION 19 AND 20, DUCHESNE COUNTY, UTAH

Ву:

Shari Maria Silverman

Prepared For:

Bureau fo Land Management Vernal Field Office

Prepared Under Contract With:

Newfield Exploration Company Rt. 3 Box 3630 Myton, UT 84052

Prepared By:

Montgomery Archaeological Consultants, Inc. P.O. Box 147
Moab, Utah 84532

MOAC Report No. 05-225

July 13, 2005

United States Department of Interior (FLPMA)
Permit No. 05-UT-60122

State of Utah Antiquities Project (Survey)
Permit No. U-05-MQ-0668b

Page 2 of 2

#### NEWFIELD PRODUCTION COMPANY

# PALEONTOLOGICAL FIELD SURVEY OF PROPOSED PRODUCTION DEVELOPMENT AREAS, DUCHESNE COUNTY, UTAH

Section 8, T 9 S, R 16 E [SW 1/4 & SE 1/4, NE 1/4; and SE 1/4]; Section 17, T 9 S, R 16 E [NE 1/4; NE 1/4, NW 1/4 & SW 1/4, SE 1/4; NE 1/4, NW 1/4, & SW 1/4, SW 1/4]; Section 19, T 9 S, R 16 E [entire section]; Section 20, T 9 S, R 16 E [excluding NW 1/4, NE 1/4; and NW 1/4 & SE 1/4, NW 1/4]; Section 21, T 9 S, R 16 E [excluding NE 1/4 & NW 1/4, NE 1/4]

#### REPORT OF SURVEY

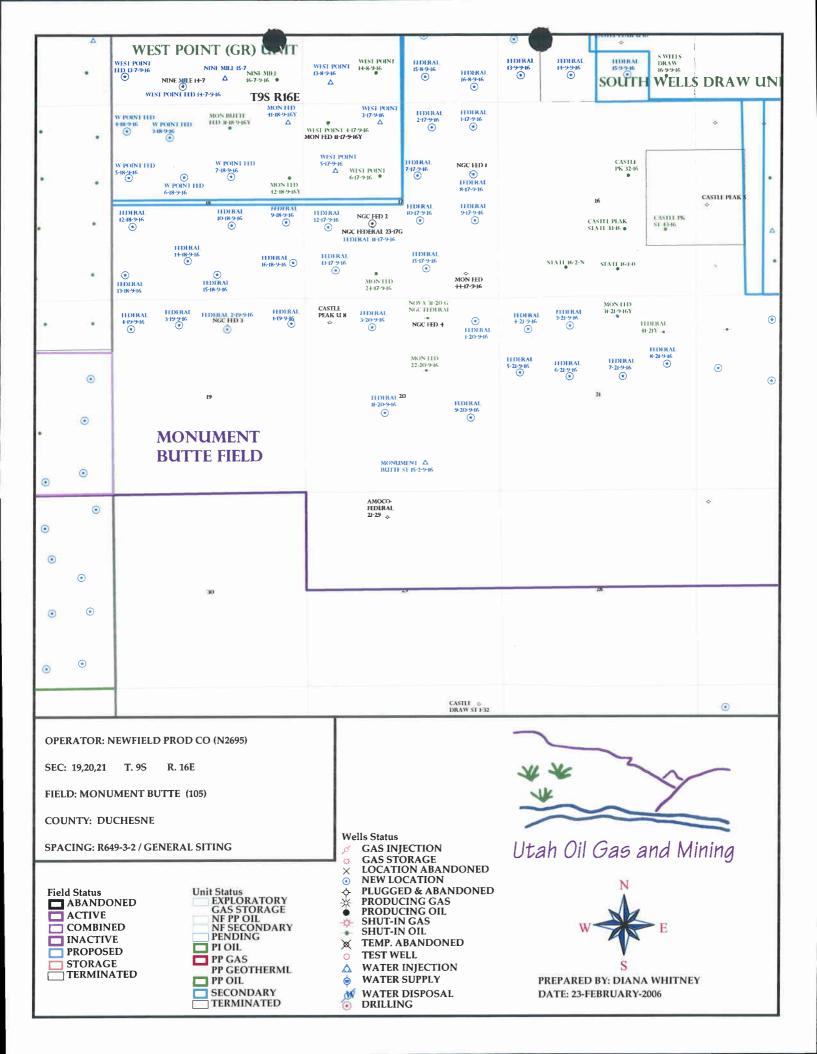
Prepared for:

Newfield Production Company

Prepared by:

Wade E. Miller Consulting Paleontologist November 10, 2005

—			
APD RECEIVED: 02/21/2006	API NO. ASSI	GNED: 43-013	-33066
WELL NAME: FEDERAL 1-20-9-16	<u> </u>		
OPERATOR: NEWFIELD PRODUCTION ( N2695	PHONE NUMBER:	435-646-3723	1
CONTACT: MANDIE CROZIER	-		
PROPOSED LOCATION:	INSPECT LOCATI	N BY: /	/
NENE 20 090S 160E	Tech Review	Initials	Date
SURFACE: 0617 FNL 0652 FEL BOTTOM: 0617 FNL 0652 FEL	Engineering		
COUNTY: DUCHESNE	Geology		·4
LATITUDE: 40.02189 LONGITUDE: -110.1354  UTM SURF EASTINGS: 573779 NORTHINGS: 4430	Surface		
FIELD NAME: MONUMENT BUTTE ( 105	<u> </u>		
LEASE TYPE: 1 - Federal  LEASE NUMBER: UTU-52018  SURFACE OWNER: 1 - Federal	PROPOSED FORMA COALBED METHAN		7
RECEIVED AND/OR REVIEWED:	LOCATION AND SITING:		
Plat	R649-2-3.		
Bond: Fed[1] Ind[] Sta[] Fee[]	Unit:		
(No. UTB000192 )	R649-3-2. Gener	ral	
N Oil Shale 190-5 (B) or 190-3 or 190-13	Siting: 460 From Q		etween Wells
Water Permit	R649-3-3. Excep	otion	
(No. MUNICIPAL )	Drilling Unit		
RDCC Review (Y/N)	Board Cause No:	:	
(Date:)	Eff Date:		
NA Intent to Commingle (Y/N)	Siting:		
Intent to Commingle (Y/N)	R649-3-11. Dire	ectional Dril	1
COMMENTS: Sop, Seperate (	ألو		
STIPULATIONS: 1- federal ap	or wa		
26 Spacing Sh	φ	·	





State of Utah

Department of Natural Resources

> MICHAEL R. STYLER Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR. Governor

GARY R. HERBERT Lieutenant Governor

February 23, 2006

Newfield Production Company Rt. #3, Box 3630 Myton, UT 84052

Re: Federal 1-20-9-16 Well, 617' FNL, 652' FEL, NE NE, Sec. 20, T. 9 South, R. 16 East, Duchesne County, Utah

K. 10 Last, Ducheshe County,

#### Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33066.

Sincerely,

Gil Hunt

**Associate Director** 

SIRA

pab Enclosures

cc: Duchesne County Assessor

Bureau of Land Management, Vernal District Office

Operator:	Newfield Production Company							
Well Name & Number	Federal	1-20-9-16						
API Number:	43-013-	33066						
Lease:	UTU-52	2018						
Location: <u>NE NE</u>	Sec. 20	T. 9 South	<b>R.</b> <u>16 East</u>					

#### **Conditions of Approval**

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

**SORM 3160-5** (June 1990)

#### UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

FORM APPROVED Budget Bureau No. 1004-0135

2448412				
Expires:	March	31,	1993	
ease Design	ation ar	nd S	erial	No.

5. L SUNDRY NOTICES AND REPORTS ON WELLS UTU-52018 Do not use this form for proposals to drill or to deepen or reentry a different reservoir. 6. If Indian, Allottee or Tribe Name Use "APPLICATION FOR PERMIT -" for such proposals NA 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE N/A 1. Type of Well 8. Well Name and No. Oil Gas Other FEDERAL 1-20-9-16 Well 9. API Well No. 43-013-33066 2. Name of Operator **NEWFIELD PRODUCTION COMPANY** 10. Field and Pool, or Exploratory Area MONUMENT BUTTE 3. Address and Telephone No. Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721 11. County or Parish, State 4. Location of Well (Footage, Sec., T., R., m., or Survey Description) **DUCHESNE COUNTY, UT.** NE/NE Section 20, T9S R16E 617 FNL 652 FEL CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 12. TYPE OF ACTION TYPE OF SUBMISSION X Notice of Intent Abandonment Change of Plans Recompletion **New Construction** Subsequent Report Plugging Back Non-Routine Fracturing Water Shut-Off Casing Repair Final Abandonment Notice Altering Casing Conversion to Injection **Permit Extension** Other Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Newfield Production Company requests to extend the Permit to Drill this well for one year. The original approval date was 2/23/06 (expiration 2/23/07).

This APD has not been approved yet by the BLM.

Approved by the Utah Division of Oil. Gas and Mining

FEB 0 6 2007

14. I hereby certify that the foregoing is true and correct 2/2/2007 Title Regulatory Specialist Signed Date Mandie Crozier CC: UTAH DOGM (This space for Federal or State office use) Title Date Approved by Conditions of approval, if any: CC: Utah DOGM

# Application for Permit to Drill Request for Permit Extension Validation

Validation
(this form should accompany the Sundry Notice requesting permit extension)

API: 43-013-33066  Well Name: Federal 1-20-9-16  Location: NE/NE Section 20,T9S R16E  Company Permit Issued to: Newfield Production Company  Date Original Permit Issued: 2/23/2006
The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.
Following is a checklist of some items related to the application, which should be verified.
If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes□No□ ⚠
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☑
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes□ No ☑
Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes□No ☑
Has the approved source of water for drilling changed? Yes□Noা
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes□No☑
Is bonding still in place, which covers this proposed well? Yes ☑ No □
Manchi Cropin 2/2/2007
Signature Date
Title: Regulatory Specialist
Representing: Newfield Production Company

FEB 2 1 2006

Form 3160-3

#### FORM APPROVED OMB No. 1004-0136 (September 2001) Expires January 31, 2004 **UNITED STATES** 5. Lease Serial No. DEPARTMENT OF THE INTERIOR UTU-52018 BUREAU OF LAND MANAGEMENT 6. If Indian, Allottee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7. If Unit or CA Agreement, Name and No. la. Type of Work: DRILL REENTER 8. Lease Name and Well No. Single Zone Multiple Zone 🔼 Oil Well 🔲 Gas Well 📮 Other Federal 1-20-9-16 1b. Type of Well: 9. API Well No. 2. Name of Operator **Newfield Production Company** 43-013-33066 3b. Phone No. (include area code) 3a. Address (435) 646-3721 Route #3 Box 3630, Myton UT 84052 Monument Butte 11. Sec., T., R., M., or Blk. and Survey or Area Location of Well (Report location clearly and in accordance with any State requirements.\*) At surface NE/NE 617' FNL 652' FEL Sec. 20, T9S R16E NE/NE At proposed prod. zone 13. State 12. County or Parish 14. Distance in miles and direction from nearest town or post office\* Duchesne UT Approximatley 15.2 miles southwest of Myton, Utah 15. Distance from proposed\* 16. No. of Acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. 40 Acres Approx. 652' f/lse, NA' f/unit 640.00 (Also to nearest drig, unit line, if any) 19. Proposed Depth 20. BLM/BIA Bond No. on file 18. Distance from proposed location\* to nearest well, drilling, completed, Approx. 1369' UTB000192 applied for, on this lease, ft. 6040' 22. Approximate date work will start\* 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 23. Estimated duration 2nd Quarter 2006 Approximately seven (7) days from spud to rig release 6038' GL 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form: 4. Bond to cover the operations unless covered by an existing bond on file (see 1. Well plat certified by a registered surveyor. Item 20 above). 2. A Drilling Plan. Operator certification. 3. A Surface Use Plan (if the location is on National Forest System Lands, the Such other site specific information and/or plans as may be required by the SUPO shall be filed with the appropriate Forest Service Office). authorized officer. Name (Printed/Typed) 25. Signature Mandie Crozier 2/17/06 Title Regulatory Specialist Approved by (Signature) Name (Printed/Typed

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct

Office

Conditions of approval, if any, are attached,

int Field Manager

Lánds & Mineral Resources

ERNAL FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*distructions on reverse)

RECEIVED FEB 1 3 2007

NOTICE OF APPROVAL

DIV. OF OIL, GAS & MINING



Title

NO NOS

178M4687A



#### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

VERNAL FIELD OFFICE VERNAL, UT 84078

(435) 781-4400



#### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Newfield Production Company Location: NENE, Sec 20, T9S, R16E

Well No: Federal 1-20-9-16 Lease No: UTU-52018

API No: 43-013-33066 Agreement: N/A

**170 South 500 East** 

Office: 435-781-4490 Cell: 435-828-4470 Matt Baker Petroleum Engineer: Office: 435-781-4432 Cell: 435-828-7875 Petroleum Engineer: Michael Lee Jim Ashley Office: 435-781-4470 Cell: 435-828-7874 Petroleum Engineer: Petroleum Engineer: Ryan Angus Office: 435-781-4430 Cell: 435-828-3913 Jamie Sparger Office: 435-781-4502 Supervisory Petroleum Technician: Paul Buhler Office: 435-781-4475 Cell: 435-828-4029 **Environmental Scientist:** Karl Wright Office: 435-781-4484 **Environmental Scientist:** Office: 435-781-4404 Holly Villa Natural Resource Specialist: Natural Resource Specialist: Melissa Hawk Office: 435-781-4476 Chuck Macdonald Office: 435-781-4441 Natural Resource Specialist: Office: 435-781-4447 Natural Resource Specialist: Darren Williams Natural Resource Specialist: Office: 435-781-3402 Verlyn Pindell Fax: 435-781-4410 After Hours Contact Number: 435-781-4513

### A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a one-year period. An additional year extension may be applied for by sundry notice prior to expiration.

#### NOTIFICATION REQUIREMENTS

Location Construction (Notify Chuck Macdonald)

Forty-Eight (48) hours prior to construction of location and access roads.

Location Completion (Notify Chuck Macdonald)

Prior to moving on the drilling rig.

Spud Notice

Twenty-Four (24) hours prior to spudding the well.

(Notify Petroleum Engineer)

Casing String & Cementing (Notify Jamie Sparger)

Twenty-Four (24) hours prior to running casing and cementing all casing strings.

BOP & Related Equipment Tests (Notify Jamie Sparger)

Twenty-Four (24) hours prior to initiating pressure tests.

First Production Notice (Notify Petroleum Engineer) - Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.



COAs: Page 2 of 8 Well: Federal 1-20-9-16

#### SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### LEASE STIPULATIONS

• Lands in this lease have been identified as containing Golden eagle habitat. Modifications to the Surface Use Plan of Operations may be required in order to protect the Golden eagle and/or habitat from surface disturbing activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.

#### GENERAL CONDITIONS OF APPROVAL

- This well is being approved in accordance with Washington Instruction Memorandum 2005-247 and Section 390 (Category 3) of the Energy Policy Act which establishes statutory categorical exclusions (CX) under the National Environmental Policy Act (NEPA). Category 3 states that an oil or gas well can be drilled within a developed field for which an approved land use plan or any environmental document prepared pursuant to NEPA analyzed drilling as a reasonably foreseeable activity, so long as such plan or document was approved within five (5) years prior to the date of spudding the well. This well is covered under the Final Environmental Impact Statement and Record of Decision Castle Peak and Eightmile Flat Oil and Gas Exploration Project Newfield Rocky Mountains Inc., signed August 24, 2005. If the well has not been spudded by August 24, 2010, a new environmental document will have to be prepared prior to the approval of the APD.
- All applicable local, state, and/or federal laws, regulations, and/or statutes will be complied with.
- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- No vehicle travel, construction or routine maintenance activities shall be performed during
  periods when the soil is too wet to adequately support vehicles and/or construction equipment. If
  such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to
  adequately support construction equipment.
- The access road will be crowned and ditched. Flat-bladed roads are not allowed.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- The reserve pit will be lined with a 12 ml or greater liner and felt prior to spudding.

COAs: Page 3 of 8 Well: Federal 1-20-9-16

- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- If paleontologic or cultural materials are uncovered during construction, the operator shall immediately stop work that might further disturb or move such materials and contact the Authorized Officer (AO) within 48 hours. A determination will be made by the AO as to necessary mitigation for the discovered paleontologic/cultural material.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- The interim seed mix for this location shall be:

Indian Ricegrass (*Oryzopsis hymenoides*)

Needle and Threadgrass (*Stipa comata*):

Scarlet Globemallow (*Sphaeralcea coccinea*):

Winter Fat (*Ceratoides lanata*)

4 lbs/acre
1 lb/acre
3 lbs/acre

- All pounds are in pure live seed.
- Rates are set for drill seeding; double the rate if broadcasting.
- Reseeding may be required if initial seeding is not successful.
- The operator will be responsible for treatment and control of invasive and noxious weeds.
- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded in the same manner as the location topsoil.
- Once the location is plugged and abandoned, it shall be recontoured to natural topology, topsoil shall be respread, and the entire location shall be seeded with a seed mix recommended by the AO (preferably of native origin). Seed application will follow all guidelines in the interim seed mix bullet statement above. If reclamation seeding should take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer immediately after the seeding is completed.
- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.

COAs: Page 4 of 8 Well: Federal 1-20-9-16

- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.
- Operator shall notify any active gilsonite mining operation within 2 miles of the location 48 hours prior to any blasting during construction for this well.

COAs: Page 5 of 8 Well: Federal 1-20-9-16

#### DOWNHOLE CONDITIONS OF APPROVAL

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL

- 1. A variance is granted for O.O. #2 III. E. 1.
  - a. The blooie line shall be straight or have targeted tees for bends in the line.
  - b. Not requiring an automatic igniter or continuous pilot on the blooie line.
- 2. Run a cement bond log from TD to the base of the surface casing shoe.

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- 1. There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well. Any changes in operation must have prior approval from the BLM, Vernal Field Office Petroleum Engineers.
- 2. The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- 3. <u>Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.</u>
- 4. Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.

All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

No aggressive/fresh hard-banded drill pipe shall be used within casing.

Cement baskets shall not be run on surface casing.

COAs: Page 6 of 8 Well: Federal 1-20-9-16

5. The lessee/operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled and analyzed (a copy of the analyses to be submitted to the BLM Field Office in Vernal, Utah).

- 6. All oil and gas shows shall be adequately tested for commercial possibilities, reported, and protected.
- 7. The lessee/operator must report encounters of all non oil and gas mineral resources (such as gilsonite, tar sands, oil shale, etc.) to the Vernal Field Office in writing within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- 8. No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM, Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM, Vernal Field Office shall be obtained and notification given before resumption of operations.
- 9. Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

Any change in the program shall be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) shall be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.

In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

10. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys,

COAs: Page 7 of 8 Well: Federal 1-20-9-16

sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.

11. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease shall have prior written approval from the BLM, Vernal Field Office.

All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.

- 12. Oil and gas meters shall be calibrated in place prior to any deliveries. The Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM, Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement.
- 13. A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM, Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- 14. This APD is approved subject to the requirement that, should the well be successfully completed for production, the BLM, Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - a. Operator name, address, and telephone number.
  - b. Well name and number.
  - c. Well location (1/41/4, Sec., Twn, Rng, and P.M.).
  - d. Date well was placed in a producing status (date of first production for which royalty will be paid).
  - e. The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).

COAs: Page 8 of 8 Well: Federal 1-20-9-16

f. The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.

- g. Unit agreement and / or participating area name and number, if applicable.
- h. Communitization agreement number, if applicable.
- 15. Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.
- 16. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production
- 17. Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- 18. Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

FORM 3160-5 (September 2001)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004

5. Lease Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.						USA UTU-52018 6. If Indian, Allottee or Tribe Name.			
I. Type of Well	Rishira vilvetome anxi	ilyitün oğus	erse sjale.		7. If Unit or CA/	Agreement, Name and/or			
	Other				8. Well Name an	nd No.			
2. Name of Operator			<del></del>		FEDERAL 1				
3a. Address Route 3 Box 3630		Ob Dhama (			9. API Well No.				
Myton, UT 84052		3b. Phone (inc. 435.646.3721	clude are code	<i>*)</i>	4301333066	ol, or Exploratory Area			
	Sec., T., R., M., or Survey Descript				MONUMENT	• •			
617 FNL 652 FEL	, .	,			11. County or Pa				
NENE Section 20 T9S R16E					DUCHESNE,	UT			
12. CHECK	X APPROPRIATE BOX(ES	) TO INIDICA	TE NATU	RE OF NO					
TYPE OF SUBMISSION			TYPE OF	ACTION					
Notice of Intent  ✓ Subsequent Report	Acidize Alter Casing Casing Repair	Deepen Fracture Trea		Production Reclamation Recomplet		☐ Water Shut-Off ☐ Well Integrity ☑ Other			
Final Abandonment	Change Plans Convert to	Plug & Aband Plug Back	don 🔲	Temporari Water Disp	y Abandon	Spud Notice			
	S #1.Spud well @ 12:30pm. cement with 160 sks of clasement to pit. WOC.								
hereby certify that the foregoing is	true and	Title							
correct (Printed/ Typed)  Don Bastian		Drilling	Foreman						
Signature Don Basi	tian	Date 05/20/2	007						
	e denistration			(e) (e) (e) (e)	USE SEE				
						THE REPORT OF THE PROPERTY OF			
Approved by	1 A 1 641		Title		Dat	te			
Conditions of approval, if any, are attache ertify that the applicant holds legal or equivalent to conditions to conditions to conditions.	uitable title to those rights in the subject		Office						
which would entitle the applicant to condu Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious and fraudulent s	U.S.C. Section 1212, make it a crime fo	or any person knowin	gly and willfull	y to make to ar	y department or ag	ency of the Juit of			
tates any false, fictitious and fraudulent s	statements or representations as to any n	natter within its juriso	liction			ニー・レーレ			

(Instructions on reverse)

MAY 2 2 2007

#### **NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT**

			8 5/8	CASING SET	AT	324.21				
LAST CASING 8 5/8" SET AT 324.21'				OPERATOR	₹	NewField Production Company				
DATUM 12' KB					WELL		Federal 1-20-9-16			
DATUM TO CUT OFF CASING							Monument Butte			
DATUM TO	BRADENHE	AD FLANGE			CONTRACT	OR & RIG#	NDSI NS #1			
TD DRILLER	320'	LOGGI	ER							
HOLE SIZE	12 1/4	<u> </u>								
LOG OF CA	SING STRIN	IG:			T					
PIECES	OD	ITEM -	MAKE - DESC	RIPTION	WT/FT	GRD	THREAD	CONDT	LENGTH	
	ļ									
		Shoe	Joint 44.70'							
		WHI - 92 cs					8rd	Α	0.95	
7	8 5/8"	Maverick ST			24#	J-55	8rd	A	312.36	
	<u> </u>	<u> </u>	GUIDE	shoe			8rd	A	0.9	
CASING INV	ENTORY B	AL.	FEET	JTS	TOTAL LEN	314.21 2				
TOTAL LEN			314.21	7	LESS CUT OFF PIECE					
LESS NON			1.85		PLUS DATUM TO T/CUT OFF CSG					
PLUS FULL	JTS. LEFT C	DUT	.0	· · · · · · · · · · · · · · · · · · ·	CASING SET DEPTH 324					
TOTAL			312.36		COMPARE					
TOTAL CSG. DEL. (W/O THRDS)			312.36	7						
TIMING			1ST STAGE		_					
BEGIN RUN CSG. Spud					GOOD CIRC THRU JOB Yes					
CSG. IN HOI			5/17/2007							
BEGIN CIRC			5/20/2007		<del></del>					
BEGIN PUM			5/20/2007	9:35 AM	N/A					
BEGIN DSPI			5/20/2007							
PLUG DOWI			5/20/2007	10:07 AM	454411/	D I				
CEMENT US			CEMENT COMPANY- B. J.							
STAGE	# SX	CEMENT TYPE & ADDITIVES								
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield								
·										
OF NEDAL 17		L	SEMENT		• • •	CHOW MAK	E & CDACIA	10		
		TCHER PLAC		<u></u>	<del></del>	SHOW MAK	E & SPACIN	NG		
Jennanzers	- iviidule III	si, iop seco	nd & third for	<u> </u>						
					<u></u>					
								<del></del>		

COMPANY REPRESENTATIVE	Don Bastian	DATE	0/2007
	***************************************		

STATE OF UTAH DIVISION OF OIL, GAS AND MINING **ENTITY ACTION FORM -FORM 6** 

OPERATOR: NEWFIELD PRODUCTION COMPANY

ADDRESS: RT. 3 BOX 3636

**LEYTON, UT 84052** 

N2695 OPERATOR ACCT. NO.

EFFECTIVE

			WELL NAME		WELLLOCATION				SFUO:	EFFECTIVE	
CTION	CURRENT	NEW	API NUMBER	WELL NAME	āa	SC	TP	RG	COUNTY	DATE	DATE
CODE	99999	16/37	4301333066	FEDERAL 1-20-9-16	NENW	20	98	16E	DUCHESNE	5/17/2007	5/30/07
HELL 1 COMMENTS: GRRV											
	CHIRDESUT NEW APINUMBER		WELL KADE		WELLLOCATION			SPUD	EFFECTIVE DATE		
ACTIONS CODE	Current Entity No.	NEW ENTITY NO.		- lange	00	_ <del>SC</del> _	TP	RG	COUNTY	DATE	UNIE
В	9 <b>999</b> 9	14844	4304738193	Sundance FEDERAL 14-1-9-17	NENW	_12		17E	DUCHESNE	5/18/2007	5/30/07
GRRU BHL = SESW SEC 1									EFFECTIVE		
ACTION	CURRENT	NEW	APINUMBER	WELL NAME	00	SC TP RG		COUNTY	DATE		
A	99999 99999	16138	4301332921	FEDERAL 10-18-9-16	NWSE				DUCHESNE	5/18/2007	5/30/01
GRN								EFFECTIVE.			
ACTION	CURRENT	NEW	API HUMBER	WELL NAME	00	SC.	_	RG	COUNTY	DATE	DATE
A	99999	16/39	4301333136	FEDERAL 13-15-9-16	SWSW	1		16E	DUCHESNE	5/22/2007	5/30/07
	GRRV								EFFECTIVE		
ACTION	CURRENT	NEW	NEW APINUMBER WELLN		QD 80 TP RG			_	COUNTY	SPUD Date	DATE
CODE	99999 99999	12418	4301332919	1 FEDERAL 7-18-9-16	SWN						5/30/07
WELL S COUMBITTS: GREV West Point											
ACTUAL	CURRENT	NEW	API NUMBER	WELL NAME				LOCATIO		SPUD DATE	EFFECTIVE DATE
CODE	ENTITY NO.	ENTITY HO.	4301333164	FEDERAL 15-21-9-16	SWS	E 21	_	16E	DUCHESNE		5/30/01
WELL S	A 99999   6/70   4301333164   FEDERAL 15-21-3-16   SWIELZI 35 102   3501120112   35							<del></del> )			
	CODES (See Individions or			DEOE	DECENTED.				Wilh All Jentri Pa		

B - "well to existing entity (group or unit wel)

C - York one existing entity to another existing entity

D - well from one existing entity to a rose entity

E - than (explain in community section)

RECEIVED

MAY 2 3 2007

Foduction Cle

April 18, 2007

Date

### **DIVISION OF OIL, GAS AND MINING**

### **SPUDDING INFORMATION**

Name of Company: Newfield Pr	oduction Company
Well Name: Federal 1-20-9-16	
API No: 43-013-33066	Lease Type: Federal
Section 20 Township 09S	Range 16E County Duchesne
Drilling Contractor NDSI	Rig # <b>NS#1</b>
SPUDDED:	
Date <u>5-16-07</u>	
Time 12:30 PM	<del></del>
How_Dry	
Drilling will Commence:	
Reported by Troy Zufeit	
Telephone #435-823-6013	
Date 5-18-07	Signed RM

FORM 3160-5 (September 2001)

### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

5. Lease Serial No.

OMB No. 1004-0135 Expires January 31,2004

FORM APPROVED

Do not use this form for proposals to drill or to re-enter an					USA UTU-52018		
abandoned w	6. If Indian, Allottee or Tribe Name.						
1. Type of Well	ROULENCE Oder Larour	ntekrijns propodadjete Sasta		7. If Unit or CA/A	Agreement, Name and/or		
	Other			8. Well Name and	1 No		
2. Name of Operator			-	FEDERAL 1-			
NEWFIELD PRODUCTION CO	OMPANY			9. API Well No.			
3a. Address Route 3 Box 3630	3b. Pl	hone <i>(include are co</i>	de)	4301333066			
Myton, UT 84052		5.646.3721		10. Field and Poo	l, or Exploratory Area		
	Sec., T., R., M., or Survey Description)			MONUMENT	· · · · · · · · · · · · · · · · · · ·		
617 FNL 652 FEL				11. County or Par	ish, State		
NENE Section 20 T9S R16E				DUCHESNE, U	JT		
12. CHECK	X APPROPRIATE BOX(ES) TO	INIDICATE NATU	JRE OF NO	OTICE, OR OT	HER DATA		
TYPE OF SUBMISSION		ТҮРЕ О	F ACTION				
	☐ Acidize ☐ □	Deepen [	Production	(Start/Resume)	☐ Water Shut-Off		
Notice of Intent		racture Treat	Reclamati	•	Well Integrity		
☑ Subsequent Report		New Construction	Recomple		Other		
— Subsequent Report	I =	lug & Abandon		ly Abandon	Weekly Status Report		
Final Abandonment	1 <del>-</del>	lug Back	Water Dis	•			
KB. Cement with 325 sks	urface. PU & TIH with Guide shoe cement mixed @ 11.0 ppg & 3.4 pit. Nipple down Bop's. Drop slip	3 yld. The 425 sks o	ement mixe	ed @ 14.4 ppg	& 1.24 yld. Returned 13		
				RECE	IVED		
				JUL 0	3 2007		
				DIV. OF OIL, O	AS & MINING		
I hereby certify that the foregoing is	true and	Title					
correct (Printed/ Typed)  Don Bastian		Drilling Foreman					
Signature Signature		Date Date			· · · · · · · · · · · · · · · · · · ·		
Non Bos	06/30/2007						
	engage trops of the stops of	PRESENTATION FOR					
Approved by		. Title		Date			
	ed. Approval of this notice does not warrant or uitable title to those rights in the subject lease	<b>.</b>					
which would entitle the applicant to cond		Office					
Title 18 U.S.C. Section 1001 and Title 43	U.S.C. Section 1212, make it a crime for any	person knowingly and willfu	lly to make to a	ny department or ager	ncy of the United		

(Instructions on reverse)

States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

### **NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT**

			5 1/2"	CASING SET	AT	6029.08	-		
					Flt cllr @	6002.84			
LAST CASI	NG <u>8 5/8"</u>	SET	A 323. <u>65'</u>	<u> </u>	OPERATOR	₹	Newfield	Production (	Company
DATUM	12' KB				WELL	Federal 1-	20-9-16		
DATUM TO	CUT OFF C	ASING _	12'	·	FIELD/PRO	SPECT _	Monumen	t Butte	
DATUM TO	BRADENHE	AD FLANGE			CONTRACT	FOR & RIG#		Patterson #	<i>‡</i> 155
TD DRILLER	6040	Loggers							
HOLE SIZE	7 7/8"						•		
-							ļ		
LOG OF CA	SING STRIN	IG:							
PIECES	OD	ITEM -	MAKE - DESC	RIPTION	WT/FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt							14
		Short jt	4301' (5.85')						
136	5 1/2"	ETC LT & C	casing		15.5#	J-55	8rd	A	5990.83
		Float collar	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						0.6
1	5 1/2"	ETC LT&C	csg		15.5#	J-55	8rd	Α	25
	ĺ		GUIDE	shoe			8rd	A	0.65
CASING INV	/ENTORY B	AL.	FEET	JTS	TOTAL LEN	GTH OF ST	RING		6031.08
TOTAL LEN	GTH OF ST	RING	6031.08	143	LESS CUT	OFF PIECE			. 14
LESS NON	CSG. ITEMS		15.25		PLUS DATU	IM TO T/CUT	OFF CSG		12
PLUS FULL	JTS. LEFT (	DUT	243.17	6	CASING SE	T DEPTH			6029.08
	TOTAL		6259.00	143	1				
TOTAL CSG	. DEL. (W/O	THRDS)	6259	143		RE			
TIMING			1ST STAGE	2nd STAGE					
BEGIN RUN	CSG.		2:00AM	6/30/2007	GOOD CIRC	THRU JOB		YES	
CSG. IN HO	LE		6:30 AM	6/30/2007	Bbls CMT C	IRC TO SUR	FACE	13	
BEGIN CIRC	<b>)</b>		6:30 AM	6/30/2007	RECIPROCA	ATED PIPE I	OR	THRUSTROP	<u>KE N</u> A
BEGIN PUM	P CMT		8:18 AM	6/30/2007	DID BACK P	RES. VALVI	E HOLD? _	YES	
BEGIN DSPI	L. CMT		9:19 AM	6/30/2007	BUMPED PL	.UG TO		1450	PSI
PLUG DOW	N		9:42 AM	6/30/2007					
CEMENT US	SED			CEMENT CON	/IPANY-	B. J.			
STAGE	#SX			CEMENT TYP	E & ADDITIV	'ES			
1	325	Premlite II w	/ 10% gel + 3 9	% KCL, 3#'s /sk	CSE + 2# sl	k/kolseal + 1	/2#'s/sk Cell	Flake	
		mixed @ 11	.0 ppg W / 3.49	cf/sk yield					
2	425	50/50 poz W	// 2% Gel + 3%	KCL, 5%EC1	1/4# sk C.F.	2% gel. 3%	SM mixed @	14.4 ppg W/	1.24 YLD
CENTRALIZI	ER & SCRA	TCHER PLAC	CEMENT			SHOW MAK	E & SPACIN	IG	
Centralizers	- Middle fi	rst, top seco	ond & third. Th	nen every third	d collar for a	total of 20.	-	· · · · · · · · · · · · · · · · · · ·	
COMPANY	EDDESCNI	-ATIVE	Don Raetian				DATE	6/30/2007	

FORM 3160-5 (September 2001)

### **UNITED STATES** DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

CHARDY NOTICES AND DEPORTS ON WELLS

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004

5. Lease Serial No.

:	TINOTIOES VIED INFI	OIVIO OIV WELLO		USA UTU-52018			
Do not use to abandoned w	this form for proposals vell. Use Form 3160-3 (	to drill or to re-enter an APD) for such proposal	s. 	6. If Indian, Allo	ttee or Tribe Name.		
	RIPLICATE - Other I	nstructions on reverse s	ide*	7. If Unit or CA/	Agreement, Name and/or		
1. Type of Well  Oil Well  Gas Well	Other			0 11 11 21	IN.		
2. Name of Operator	Otner			8. Well Name an FEDERAL 1			
NEWFIELD PRODUCTION CO	OMPANY			9. API Well No.	20 7 10		
3a. Address Route 3 Box 3630		3b. Phone (include ar	e code)	4301333066			
Myton, UT 84052		435,646,3721		10. Field and Poo	ol, or Exploratory Area		
4. Location of Well (Footage, 617 FNL 652 FEL	Sec., T., R., M., or Survey Des	cription)		MONUMENT 11. County or Pa			
NENE Section 20 T9S R16E				DUCHESNE,	UT		
12. CHECI	K APPROPRIATE BOX	(ES) TO INIDICATE NA	ATURE OF N	OTICE, OR O	THER DATA		
TYPE OF SUBMISSION		TYP	E OF ACTION				
Notice of Intent  Subsequent Report  Final Abandonment	Acidize Alter Casing Casing Repair Change Plans Convert to	Deepen Fracture Treat New Construction Plug & Abandon Plug Back	Reclamati	te ily Abandon	Water Shut-Off Well Integrity Other		
13. Describe Proposed or Completed O proposal is to deepen directionally of Bond under which the work will be of the involved operations. If the of Final Abandonment Notices shall be inspection.)  Formation water is produced Ashley, Monument Butte produced water is injected.  Water not meeting quality approved surface disposa	or recomplete horizontally, give sul- performed or provide the Bond No- peration results in a multiple comple e filed only after all requirements, in succed to a steel storage ta a. Jonah, and Beluga wate ed into approved Class II by criteria, is disposed at I	osurface locations and measured and on file with BLM/BIA. Required letion or recompletion in a new interincluding reclamation, have been come. If the production water injection facilities by cowells to enhance Newfiel	d true vertical depths subsequent reports s rval, a Form 3160-4 ompleted, and the operation of the property of	of all pertinent mark hall be filed within 3 shall be filed once te trator has determined y guidelines, it ract trucks. Sul recovery project	ers and zones. Attach the 0 days following completion string has been completed. that the site is ready for final is transported to the bsequently, the ct.		
<b>SPP.0.03</b>							

I hereby certify that the foregoing is true and	Title
correct (Printed/ Typed) Mandie Croxics	Regulatory Specialist
Signature Coris	Date 07/30/2007
THIS SPACE FOR FED	DERAL OR STATE OFFICE USE
Approved by	Title Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the Umicol States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

AUG 0 2 2007

### STATE OF UTAH

ŧ

DEPARTMENT OF NATURAL RESOURCES 5. LEASE DESIGNATION AND SERIAL NUMBER: DIVISION OF OIL, GAS AND MINING USA UTU-52018 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: SUNDRY NOTICES AND REPORTS ON WELLS 7 LINIT of CA AGREEMENT NAME: Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. 8. WELL NAME and NUMBER: 1. TYPE OF WELL: OIL WELL GAS WELL OTHER FEDERAL 1-20-9-16 9. API NUMBER 2. NAME OF OPERATOR 4301333066 NEWFIELD PRODUCTION COMPANY PHONE NUMBER 10. FIELD AND POOL, OR WILDCAT: 3. ADDRESS OF OPERATOR: STATE UT ZIP 84052 435.646.3721 MONUMENT BUTTE CITY Myton Route 3 Box 3630 4. LOCATION OF WELL: COUNTY: DUCHESNE FOOTAGES AT SURFACE: 617 FNL 652 FEL STATE: UT OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NENE, 20, T9S, R16E CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF ACTION TYPE OF SUBMISSION DEEPEN REPERFORATE CURRENT FORMATION ACIDIZE ■ NOTICE OF INTENT SIDETRACK TO REPAIR WELL FRACTURE TREAT ALTER CASING (Submit in Duplicate) TEMPORARITLY ABANDON CASING REPAIR ■ NEW CONSTRUCTION Approximate date work will TUBING REPAIR CHANGE TO PREVIOUS PLANS OPERATOR CHANGE PLUG AND ABANDON VENT OR FLAIR CHANGE TUBING WATER DISPOSAL CHANGE WELL NAME PLUG BACK SUBSEQUENT REPORT (Submit Original Form Only) WATER SHUT-OFF PRODUCTION (START/STOP) CHANGE WELL STATUS Date of Work Completion: COMMINGLE PRODUCING FORMATIONS OTHER: - Weekly Status Report RECLAMATION OF WELL SITE 07/31/2007 RECOMPLETE - DIFFERENT FORMATION CONVERT WELL TYPE 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The above subject well was completed on 07/25/07, attached is a daily completion status report.

NAME (PLEASE PRINT) Jentri Park	TITLE Production Clerk
SIGNATURE MANUALLE	DATE 07/31/2007
Side of the second of the seco	BECEIVED
(This space for State use only)	RECEIVED

AUG 07 2007

DIV. OF OIL, GAS & MINING

### **Daily Activity Report**

Format For Sundry FEDERAL 1-20-9-16 5/1/2007 To 9/30/2007

7/11/2007 Day: 1

Completion

Rigless on 7/10/2007 - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5929' & cement top @ 60'. Perforate stage #1. CP1 sds @ 5526-44' w/ 3 1/8" Slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 72 shots. 143 BWTR. SIFN.

7/20/2007 Day: 2

Completion

Rigless on 7/19/2007 - NU BJ Services "Ram head" frac flange. RU BJ & frac stage #1 (CP1 sds) W/ 40,327# 20/40 sand in 416 bbls Lightning frac 17 fluid. Pumped 780 gals 4% Techni-Hib 767W "pre-pad" & fresh wtr spacer ahead of frac. Perfs broke down @ 2756 psi. Treated @ ave press of 2186 psi W/ ave rate of 24.7 BPM. Spotted 500 gals 15% HCL acid in flush to cover stage #2. ISIP--2165 psi. Leave pressure on well. Est 559 BWTR. RU Perforators WLT, crane & lubricater. Run Weatherford 5 1/2" composite flow-through frac plug & 14' X 3/18" slick perf gun. Set plug @ 5230'. Perf stage #2 (LODC sds) @ 5124-38' W/ 4 JSPF. All 1 run. RU BJ Services & frac stage #2 W/ 60,273# 20/40 sand in 510 bbls Lightning frac 17 fluid. Pumped 780 gals 4% Techni-Hib 767W "pre-pad" & fresh wtr spacer ahead of frac. Perfs broke down @ 3621 psi (on third attempt of pressuring against perfs). Treated @ ave press of 2674 psi W/ ave rate of 24.8 BPM. Spotted 500 gals 15% HCL acid in flush to cover stage #3. ISIP--2760 psi. Leave pressure on well. Est 1069 BWTR. RU Perforators WLT & run Weatherford 5 1/2" composite flow-through frac plug & 15' X 3/18" slick perf gun. Set plug @ 4900'. Perf stage #3 (C sds) @ 4780-95' W/ 4 JSPF. All 1 run, RU BJ Services & frac stage #3 W/ 60,060# 20/40 sand in 510 bbls Lightning frac 17 fluid. Pumped 780 gals 4% Techni-Hib 767W "pre-pad" & fresh wtr spacer ahead of frac. Perfs broke down @ 4170 psi (on sixth attempt of pressuring against perfs). Treated @ ave press of 1833 psi W/ ave rate of 24.8 BPM. Spotted 500 gals 15% HCL acid in flush to cover stage #4. ISIP--1800 psi. Leave pressure on well. Est 1579 BWTR. RU Perforators WLT & run Weatherford 5 1/2" composite flowthrough frac plug & 14' X 3/18" slick perf gun. Set plug @ 4740'. Perf stage #4 (D2 sds) @ 4680-94' W/ 4 JSPF. All 1 run. RU BJ Services to frac stage #4. Unable to breakdown perfs after several attempts W/ 4200 psi max. RU WLT & RIH W/ 3 1/2" dumpbailer W/ 8 gals 15% HCL acid. Tag sd @ 4661'. Dump acid & LD bailer. Flow well back on chokes for 2 1/2 hrs, rec est 150 BTF. Recovered acid & strung out sand. Flowing fairly clean @ end. Casing pressure @ 150 psi. RU BJ & breakdown D2 perfs @ 1889 psi. Frac stage #4 W/ 79,938# 20/40 sand in 623 bbls Lightning frac 17 fluid. Pumped 780 gals 4% Techni-Hib 767W "pre-pad" & fresh wtr spacer ahead of frac. Treated @ ave press of 1860 psi W/ ave rate of 24.8 BPM. Spotted 500 gals 15% HCL acid in flush to cover stage #5. ISIP--1960 psi. Leave pressure on well. Est 2052 BWTR. RU Perforators WLT & run Weatherford 5 1/2" composite flow-through frac plug & 7' X 3/18" slick perf gun. Set plug @ 4250'. Perf stage #5 (GB6 sds) @ 4160-67' W/ 4 JSPF. All 1 run. RU BJ Services to frac stage #5. Pressure against perfs to 4200 psi--holding solid. \*\*BJ Blender will not run !!\*\* Shut well in with pressure overnight. Est 2052 BWTR.

7/21/2007 Day: 3

Completion

NC #1 on 7/20/2007 - 2250 psi on well. RU BJ Services & breakdown stage #5 (GB6 sds) @ 4201 psi. Frac stage #5 W/ 28,569# 20/40 sand in 317 bbls Lightning frac 17 fluid. Treated @ ave press of 1594 psi W/ ave rate of 24.9 BPM. ISIP--1545 psi. RD BJ & WLT. Begin immediate flowback of frac on 12/64 choke @ 1 BPM. Zone flowed 2.5 hrs rec add'l 135 BTF (est 12% of combined frac load of 2376 bbls--includes 150 bbls f/ previous FB). MIRU NC #1. ND Cameron BOP & 5M frac head. Install 3M production tbg head & NU Weatherford Schaeffer BOP. Talley, PU & TIH W/ new Weatherford 4 3/4" "Chomp" bit, bit sub & new 2 7/8 8rd 6.5# J-55 tbg. Tag fill @ 4181'. Tbg displaced 10 BW on TIH. RU power swivel. C/O sd to composite plug @ 4250'. Drill out plug in 25 minutes. Circ hole clean W/ no fluid loss. Hang back swivel. SIFN W/ EOT @ 4313'. Est 2224 BWTR.

### 7/24/2007 Day: 4

Completion

NC #1 on 7/23/2007 - 6:30 AM OWU, Swvl I/Hle To Plg @ 4740', Drill Up Plg, Swv I/Hle To Fill @ 4878', C/Out To Plg @ 4900', Drill Up Plg, Swvl I/Hle To Fill @ 5145', C/Out To Plg @ 5230', Drill Up Plg, Swvl I/Hle To Fill @ 5750', Drill & C/Out To PBTD @ 5957.82' KB, Curc Well Clean 1 Hr, R/D Swvl, POOH W/-5 Jts Tbg EOB @ 5819', R/U Swab, Made 15 Swab Runs, Recvred 177 Bbls Wtr, Lite Trce Sand, Lite Trce Oil, FFL @ 1600', SWI, 6:30PM C/SDFN, Lost 123 Bbls Wtr On Drill Out To PBTD, Recvred 177 Bbls Wtr Swabbing, Total Wtr Recvery For Day = 54 Bbls.

### 7/25/2007 Day: 5

Completion

NC #1 on 7/24/2007 - 6:30 AM OWU, RIH W/-5 Jts Tbg To Fill @ 5952', R/U R/pmp & C/Out To PBTD @ 5957.82', Curc Well Clean, POOH W/-194 Jts Tbg, Bit Sub & Bit. P/U & RIH W/-Tbg Production Detail Shown Below. N/D BOP, Set 5 1/2 T/A In 15,000 Tension, N/U W/-HD. R/U R/pmp, Flsh Tbg W/-60 Bbls Wtr. P/U Stroke & RIH W/- CDI-2 1/2x1 1/2x16x20' RHAC, 6-1 1/2x25' Wt Bars, 20-3/4x25' Guided Rods, 50-3/4x25' Slick Rods, SWI, 6:30PM C/SDFN. Lost 87 Bbls Wtr On Curc Out To PBTD.

### 7/26/2007 Day: 6

Completion

NC #1 on 7/25/2007 - 6:30 AM OWU, RIH 45-3/4X25' Slick Rods, 100-3/4X25' Guided Rods, 3/4X8'-6'-4'-2' Ponys, 1 1/2X26' Polish Rod, R/U Unit, R/U Rig Pump, Fill Tbg W/-1 Bbl Wtr, Stroke Unit & Tbg To 800 Psi, Good Test. R/D Eq, R/D Rig. POP @ 10:30AM, 120" SL, 5 SPM, (Final Report)

**Pertinent Files:** Go to File List

**UNITED STATES** DEPARTMENT OF THE INTERIOR

**BUREAU OF LAND MANAGEMENT** 

(See other instructions ons reverse side)

SUBMIT IN DUPLICATE\* FORM APPROVED OMB NO. 1004-0137

Expires: February 28, 1995

5, LEASE DESIGNATION AND SERIAL NO.

UTU-52018

WELL	COMPL	<b>ETION</b>	OR RE	ECOMPL	LETION F	REPORT A	ND LOG*	·	0. IF INDIAN, ALEOTTEE	NA
1a. TYPE OF WORK						-			7. UNIT AGREEMENT NA	AME
		OIL WELL	X	GAS WELL	DRY	Other			Fe	deral
1b. TYPE OF WELL						_				
		, ,	<del>_</del>	n	7	7			8. FARM OR LEASE NAM	IE, WELL NO.
NEW X	WORK OVER	DEEPEN		PLUG BACK	DIFF RESVR.	Other			Federal	1-20-9-16
2. NAME OF OPERATOR		Na	المامات	'unlaration	Compony				9. WELL NO.	2 22066
3. ADDRESS AND TELEP	HONE NO	Ne	wileid E	xpioration	Company				10. FIELD AND POOL OR	3-33066 WILDCAT
J. ADDICESS AND TELLI		401 17th	St. Suit	te 1000 D	enver, CO	80202				nent Butte
4. LOCATION OF WE	LL (Report loca	tions clearly a	nd in accord	lance with any	State requirement	s.*)			11. SEC., T., R., M., OR BL	OCK AND SURVEY
At Surface		617	"FNL & 6	552' FEL (NE	E/NE) Sec. 20	, 195, R16E			OR AREA	TOC DICE
At top prod. Interval rep	ported below								Sec. 20,	T9S, R16E
At total depth			Г	14. API NO.		DATE ISSUED			12. COUNTY OR PARISH	13. STATE
At total depth					3-33066		2/23/07		Duchesne	UT
15. DATE SPUDDED	16. DATE T.D.		17. DAT	E COMPL. (Read		18. ELEVATIONS (I	OF, RKB, RT, GR, E	TC.)*	005011/D	19. ELEV. CASINGHEAD
05/16/07		29/07		07/25		6038	23. INTERVALS	POT	6050' KB	CABLE TOOLS
20. TOTAL DEPTH, MD 8	Ł TVD	21. PLUG BAC	CK T.D., MD &	& IVD	22. IF MULTIPLE HOW MANY		DRILLED BY	1	ART TOOLS	CABLE TOOLS
6050'			5958'				>		X	
24. PRODUCING INTERV	AL(S), OF THIS	COMPLETION-	тор, вотто	OM, NAME (MD	AND TVD)*					25. WAS DIRECTIONAL
			(	Green Riv	er 4160'-	5544'				SURVEY MADE
								1 -		No
26: TYPE ELECTRIC AND Dual Induction	OTHER LOGS I	Compe	nsated	Density (	Compensat	ed Neutron. 0	GR. Caliper	Ceme	ent Bond Loa	27. WAS WELL CORED NO
23.	Guard, Oi	, Compe	insatca			rt all strings set in		, 00,,,,	J.K. 2011.4 20g	
CASING SIZE/	GRADE	WEIGHT,	LB./FT.	DEPTH S	ET (MD)	HOLE SIZE	TOP OF CE		MENTING RECORD	AMOUNT PULLED
8-5/8" - 、	J-55	24		32		12-1/4"			sx Class "G" cmt	
5-1/2" - c	J-55	15.	b#	602	29.	7-7/8"	325 sx Prem	lite II an	d 425 sx 50/50 Poz	
		7 777	SD DECOE	ND.			30.	_	TUBING RECORD	
SIZE	ТОР		ER RECOR BOTTO		ACKS CEMENT*	SCREEN (MD)	SIZE		DEPTH SET (MD)	PACKER SET (MD)
0,42.0		(					2-7/8"		EOT@	TA @
						<u> </u>	<u></u>		5615'	5518'
31. PERFORATION REC		ize and number		7F S	PF/NUM <u>BER</u>	32.	ACID, SHOT ERVAL (MD)		URE, CEMENT SQUEI AMOUNT AND KIND OF	
INI	(CD1)	5526'-5544	.4		4/72	5526'-				and in 416 bbls fluid
		5124'-5138'		3"	4/56	5124'-		Frac	w/ 60,273# 20/40 sa	and in 510 bbls fluid
		1780'-4795'		3"	4/60	4780'-		Frac	w/ 60,060# 20/40 sa	and in 510 bbls fluid
		1680'-4694'		3"	4/56	4680'-		Frac	w/ 49,938# 20/40 sa	and in 623 bbls fluid
		4160'-4167		3"	4/28	4160'-	4167'	Frac	w/ 28,569# 20/40 sa	and in 317 bbls fluid
								F		1
									The transfer of the state of the	,
						·			AUG 1 4 2007	
						<u> </u>				
33.*		Lancaugue	NA APPLIAN	(D)	PRODUC			ם עום	FOU GAS DATE	TATUS (Producing or shut-in)
DATE FIRST PRODUCTION 07/25/0		PRODUCTIO	ометнов 2-1.	(Flowing, gas lift, /2" x 1-1/2	pumpingsize and to 2" x 16' x 20	)' RHAC SM I	Plunger Pur		P	RODUCING
DATE OF TEST		URS TESTED	СНОКЕ			LBBLS.	GASMCF.	WATE	RBBL.	GAS-OIL RATIO
10 day av	,_			163	ST PERIOD	26	1 0	ſ	87	l 0
FLOW. TUBING PRESS.		SING PRESSUR	E CALCU	LATED	OIL-BBL.	GASMCF.		WATER		TY-API (CORR.)
			24-HOU	IR RATE		1		1		
				>	<u> </u>			L	TROT WITHEATE BY	
34. DISPOSITION OF GAS	S (Sold, used for f	uel, vented, etc.)	Sold	& Used fo	r Fuel				TEST WITNESSED BY	
35. LIST OF ATTACHME	ENTS	-	00.0	<del>a 000a 10</del>						
	<u> </u>		-							
36. I hereby certify that	the foregoing	md attached/in	formation is	s complete and	correct as determ	ined from all availab	le records			01/0/00
SIGNED	1/ML	VUL	111		TITLE	Pr	oduction Cl	erk	DATE	8/10/2007
Jentri	Park	V	/							JP
	/	1	*(8	See Instruction		or Additional Data			ns as to any matter within its jurisdi	iction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all 38. drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);

GEOLOGIC MARKERS

FORMATION	ТОР	воттом	DESCRIPTION, CONTENTS, ETC.		то	
			-	NAME		TRUE
		•			MEAS. DEPTH	VERT. DEPTH
			Well Name	Garden Gulch Mkr	3635'	
			Federal 1-20-9-16	Garden Gulch 1	3833'	
				Garden Gulch 2	3940'	
				Point 3 Mkr	4186'	
				X Mkr	4450'	
	1			Y-Mkr	4482'	
	,			Douglas Creek Mkr	4597'	
				BiCarbonate Mkr	4834'	
				B Limestone Mkr	4930'	
				Castle Peak	5488'	
	İ			Basal Carbonate	5926'	
				Total Depth (LOGGERS	6030'	
				1		
				1		
	<u> </u>	<u> </u>			L	

Sundry Number: 31191 API Well Number: 43013330660000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES		FORM 9		
ι	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-52018				
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:				
	posals to drill new wells, significantly dee reenter plugged wells, or to drill horizontal n for such proposals.		7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)		
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: FEDERAL 1-20-9-16				
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	DMPANY		<b>9. API NUMBER:</b> 43013330660000		
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT,		ONE NUMBER: xt	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0617 FNL 0652 FEL			COUNTY: DUCHESNE		
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NENE Section: 2	IIP, RANGE, MERIDIAN: 0 Township: 09.0S Range: 16.0E Meridian:	s	STATE: UTAH		
11. CHECH	K APPROPRIATE BOXES TO INDICATE N	IATURE OF NOTICE, REPOR	T, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
	ACIDIZE	ALTER CASING	CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
	✓ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	✓ CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION		
10/12/2012	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK		
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON		
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL		
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION		
,		OTHER	OTHER:		
			,		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  The subject well has been converted from a producing oil well to an injection well on 10/09/2012. On 10/10/2012 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/12/2012 the casing was pressured up to 1575 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 150 psig during the test. There was not a State representative available to witness the test.  By:					
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician			
SIGNATURE	433 040-4074	DATE			
N/A		10/19/2012			

Sundry Number: 31191 API Well Number: 43013330660000

# Mechanical Integrity Test Casing or Annulus Pressure Test

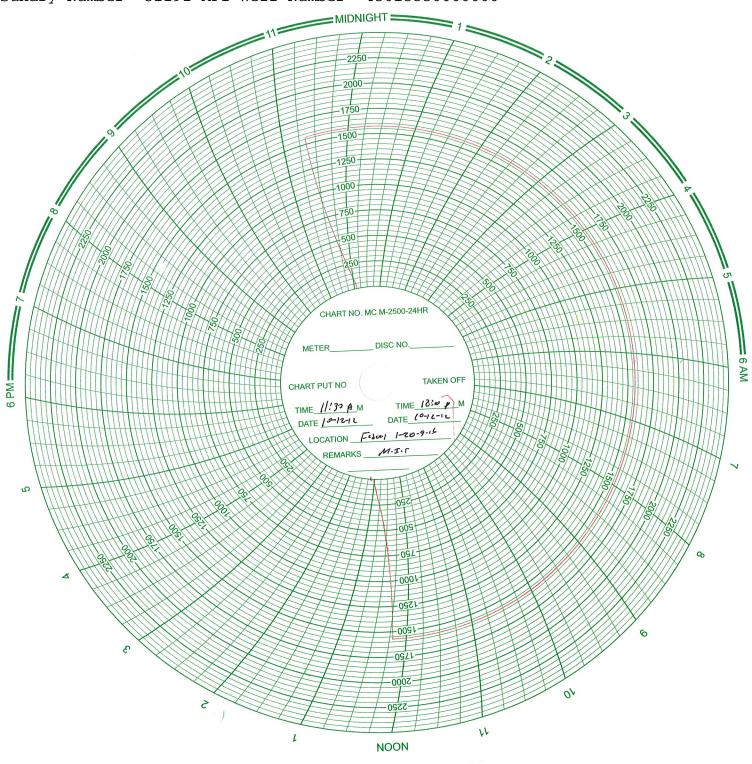
Newfield Production Company Rt. 3 Box 3630 Myton, UT 84052 435-646-3721

Witness:	Date 10/12/10 Time //:32 ampm
Test Conducted by: Rily Boly Others Present:	
Well: Film 1-20-9-16	Field: Monument B-Ha
Well Location:	API No: 4391333066

<u>Time</u>	Casing Pressure	
0 min	1575	psig
5	1575	psig
10	1575	psig
· 15	1575	psig
20	1575	psig
25	1575	psig
30 min	1575	_ psig
35		psig
40		_ psig
45		_ psig
50		_ psig
55		_ psig
60 min		_ psig
Tubing pressure:	150	_ psig
Result:	Pass	Fail

Signature of Witness:			7		
Signature of Per	son Conducting	Test:	(L)	Bef	•

Sundry Number: 31191 API Well Number: 43013330660000



Sundry Number: 31191 API Well Number: 43013330660000
Summary Rig Activity
Page 1 of 2

### **Daily Activity Report**

Format For Sundry FEDERAL 1-20-9-16 8/1/2012 To 12/30/2012

10/4/2012 Day: 1

Conversion

Nabors #1608 on 10/4/2012 - MIRUSU. LD rods. Pressure test tbg. - RU pumping unit. Unseat rod pump. Flush tbg w/ 40 BW @ 250°. - Soft seat rods & fill tbg w/ 12 BW. Pressure tbg to 3000 psi. Pressure was dropping off slow. Pressure tbg to 5000 psi attempting to open hole bigger w/o success. - LD 215- 3/4" rods, ponies & polished rod on trailer. Flush tbg & rods w/ additional 20 BW during TOH. - X-over for tbg equipment. Tie drill line back single line. ND wellhead. TA was not set. NU BOPs. RU rig floor. - Flush tbg w/ 30 BW. Drop standing valve down tbg. Fill tbg & pressure test tbg to 3000 psi (good test). - RU sandline. RIH w/ fishing tool on sandline & retrieve. - MIRUSU. Hot oiler had pumped 60 bbls water down csg @ 250°.

Daily Cost: \$0

**Cumulative Cost: \$8,328** 

### 10/5/2012 Day: 2

Conversion

Nabors #1608 on 10/5/2012 - TOH w/ tbg (talleying, breaking collars & applying Liquid-Oring to threads). LD 48- jts tbg on trailer. - Release RBP & reset @ 4090'. Set pkr @ 4076' (above all perfs). Test to 4000 psi. Move tools to find GB6 sds. Locate perfs. Set RBP @ 4200'. Move pkr up hole to locate perfs. GB6 sds take fluid @ 3/4 bpm @ 1350 psi. There is a 18' correction some where (can't find in tally). Release PKR and leave Hang @ 3971'. - On standby waiting for possible frac schedule change. - On standby waiting for possible frac schedule change. - TOH w/ 134- jts 2 7/8" 6.5# 8rd EUE tbg (talley, breaking collars & applying Liquid O-ring to threads). TA kept hanging up on TOH. - TOH w/ 134- jts 2 7/8" 6.5# 8rd EUE tbg (talley, breaking collars & applying Liquid O-ring to threads). TA kept hanging up on TOH. - LD 48- its on tbg on trailer. Bottom 3- its had a lot of scale. - LD 48- its on tbg on trailer. Bottom 3- jts had a lot of scale. - SWIFN. RU pump & pump lines. - SWIFN. RU pump & pump lines. - Held safety meeting & discussed JSA's. Open well w/ 0 psi on casing. RU perferators WLT & lubricator. RIH w/ gauge ring to 4720'. Perferate D1 sds @ 4636-39' w/ 3 spf for total of 9 shots. - Held safety meeting & discussed JSA's. Open well w/ 0 psi on casing. RU perferators WLT & lubricator. RIH w/ gauge ring to 4720'. Perferate D1 sds @ 4636-39' w/ 3 spf for total of 9 shots. - RU 5-1/2" "TS" RBP, on/off tool, 2-3/8" x 4' pup joint, "HD" pkr. PU Tally, drift & TIH w/ work string tbg. Set RBP @ 4670'. Set pkr @ 4645'. - RU 5-1/2" "TS" RBP, on/off tool, 2-3/8" x 4' pup joint, "HD" pkr. PU Tally, drift & TIH w/ work string tbg. Set RBP @ 4670'. Set pkr @ 4645'. - Tools won't test. Move pkr. Still won't test. - Tools won't test. Move pkr. Still won't test. - Release RBP & reset @ 4090'. Set pkr @ 4076' (above all perfs). Test to 4000 psi, Move tools to find GB6 sds. Locate perfs. Set RBP @ 4200'. Move pkr up hole to locate perfs. GB6 sds take fluid @ 3/4 bpm @ 1350 psi. There is a 18' correction some where (can't find in tally). Release PKR and leave Hang @ 3971'.

Daily Cost: \$0

**Cumulative Cost:** \$16,122

### 10/8/2012 Day: 4

Conversion

Nabors #1608 on 10/8/2012 - Frac D-1 Sands, FB, CO top of RBP and retrieve RBP. POOH. RBIH w/injection string. - Waith for acid truck from Multi-chem. - SWIFN. - Spot in pipe trailer and start LD pipe. LD 95 jts of 2 7/8" N-80 tbg. - Had to wair on semi trailer to LD pipe. Well still flowing after releasing the plug. - Release pkr, RD frac valve, RIH to latch on to RBP. Had to CO 15' of fill. Circ clean and released plug. - Open tbg up to FB on a 20 choke. Died down

Sundry Number: 31191 API Well Number: 43013330660000
Summary Rig Activity
Page 2 of 2

to 0 after 20 bbls. - Filled backside w/12 bbls and PU to 500 psi. Frac D-1 sands 4636-39'. RD frac crew, called runners for the tbg trailer. - Spot in frac crew and RU lines. Set pkr @ 4614'. - Safety Meeting, discussed location hazards, recent NFX incidents, job procedure, emergency plans, meeting point. - Move plug down to 4670' and plug up to 4662'. Pressure test plug to 4000 PSI. Good test. - RU Muti-chem and pump 2 Bbls acid. Pump 24 Bbls behind HCL to spot @ 4640'. Move PKR above perfs to 4608' and start breaking dwn zones. BD @ 3700 psi. Increased rate to .5 Bbl and pumped 5 bbls @ 1500 psi. shut down and pressurebled down to zero in less then a minute. - Waiting on frac crew.

Daily Cost: \$0

Cumulative Cost: \$84,384

### 10/9/2012 Day: 5

Conversion

Nabors #1608 on 10/9/2012 - TIH w/ pkr. Test tbg. Set pkr. Test casing. RDMOSU. Well ready for MIT. - Held safety meeting & discussed JSA's. TIH w/ XN nipple, 2-3/8" x 4' pup jt, XO sub (2-7/8" t0 2-3/8"), "HD" pkr, On/Off tool, PSN, 133 jts 2-7/8" tbg. - Tighten well head bolts. Test casing to 1400 psi. Took 2 attempts. - Pump 20 bbls fluid. Drop STD vlve. Fill tbg w/ 12 bbls. Test tbg to 3000 psi for 30 min, took 3 attempts. - RDMOSU. Well ready for MIT. - Pump 50 bbls pkr fluid. Set pkr w/ 15,000#'s tension @ 4107' CEO. 4117' EOT. - Single line rig. RD BOP's. Hang tbg in well on 6' pup joint. - RU sand line & fish std valve.

Daily Cost: \$0

Cumulative Cost: \$113,603

### 10/16/2012 Day: 6

Conversion

Rigless on 10/16/2012 - Conduct initial MIT - On 10/10/2012 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/12/2012 the casing was pressured up to 1575 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 150 psig during the test. There was not a State representative available to witness the test. **Finalized** 

Daily Cost: \$0

**Cumulative Cost:** \$190,137

**Pertinent Files: Go to File List** 

Sundry Number: 32105 API Well Number: 43013330660000

	STATE OF UTAH		FORM 9	
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING			5.LEASE DESIGNATION AND SERIAL NUMBER UTU-52018	
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.			7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)	
1. TYPE OF WELL Water Injection Well			8. WELL NAME and NUMBER: FEDERAL 1-20-9-16	
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	9. API NUMBER: 43013330660000			
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052  435 646-4825 Ext			9. FIELD and POOL or WILDCAT: MONUMENT BUTTE	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0617 FNL 0652 FEL			COUNTY: DUCHESNE	
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 20 Township: 09.0S Range: 16.0E Meridian: S			STATE: UTAH	
11. CHECI	K APPROPRIATE BOXES TO INDICATE N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA	
TYPE OF SUBMISSION		TYPE OF ACTION		
	CHANGE TO PREVIOUS PLANS  CHANGE WELL STATUS  DEEPEN  OPERATOR CHANGE  PRODUCTION START OR RESUME  REPERFORATE CURRENT FORMATION  TUBING REPAIR  WATER SHUTOFF	_	CASING REPAIR  CHANGE WELL NAME  CONVERT WELL TYPE  NEW CONSTRUCTION  PLUG BACK  RECOMPLETE DIFFERENT FORMATION  TEMPORARY ABANDON  WATER DISPOSAL  APD EXTENSION  OTHER: Put on Injection  Depths, volumes, etc.  Accepted by the Utah Division of Oil, Gas and Mining  FOR RECORD ONLY  November 19, 2012	
NAME (PLEASE PRINT)	PHONE NUMBER	TITLE		
SIGNATURE N/A	435 646-4874	Water Services Technician  DATE 11/15/2012		



April 30, 2012

Mr. Mark Reinbold State of Utah Division of Oil, Gas and Mining 1594 W North Temple Salt Lake City, Utah 84114-5801

RE:

Permit Application for Water Injection Well

Federal #1-20-9-16

Monument Butte Field, Lease #UTU-52018

Section 20-Township 9S-Range 16E

Duchesne County, Utah

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Federal #1-20-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

Eric Sundberg Regulatory Lead

RECEIVED
MAY 0 1 2012

DIV OF OIL, GAS, & MINING

# NEWFIELD PRODUCTION COMPANY APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL FEDERAL #1-20-9-16

MONUMENT BUTTE FIELD (GREEN RIVER) FIELD

**LEASE #UTU-52018** 

APRIL 30, 2012

### TABLE OF CONTENTS

LETTER OF INTENT **COVER PAGE** TABLE OF CONTENTS UIC FORM 1 – APPLICATION FOR INJECTION WELL WELLBORE DIAGRAM OF PROPOSED INJECTION WORK PROCEDURE FOR INJECTION CONVERSION COMPLETED RULE R615-5-1 QUESTIONNAIRE COMPLETED RULE R615-5-2 QUESTIONNAIRE ATTACHMENT A ONE-HALF MILE RADIUS MAP ATTACHMENT A-1 WELL LOCATION PLAT LIST OF SURFACE OWNERS WITHIN ONE-HALF MILE RADIUS ATTACHMENT B ATTACHMENT C CERTIFICATION FOR SURFACE OWNER NOTIFICATION WELLBORE DIAGRAM - FEDERAL #1-20-9-16 ATTACHMENT E **ATTACHMENT E-1** WELLBORE DIAGRAM - FEDERAL #9-17-9-16 ATTACHMENT E-2 WELLBORE DIAGRAM - FEDERAL #15-17-9-16 **ATTACHMENT E-3** WELLBORE DIAGRAM - FEDERAL #7-20-9-16 ATTACHMENT E-4 WELLBORE DIAGRAM - FEDERAL #8-20-9-16 WELLBORE DIAGRAM - FEDERAL #9-20-9-16 ATTACHMENT E-5 ATTACHMENT E-6 WELLBORE DIAGRAM - FEDERAL #3-21-9-16 ATTACHMENT E-7 WELLBORE DIAGRAM – FEDERAL #4-21-9-16 **ATTACHMENT E-8** WELLBORE DIAGRAM - FEDERAL #5-21-9-16 **ATTACHMENT E-9** WELLBORE DIAGRAM – NGC FEDERAL #31-20G-9-16 ATTACHMENT E-10 WELLBORE DIAGRAM – STATE #13-16-9-16 ATTACHMENT E-11 WELLBORE DIAGRAM - GMB #3-16-9-16H ATTACHMENT F WATER ANALYSIS ATTACHMENT G FRACTURE GRADIENT CALCULATIONS ATTACHMENT G-1 FRACTURE REPORTS DATED - 7/11/07 - 7/26/07 ATTACHMENT H WORK PROCEDURE FOR PROPOSED PLUG AND ABANDON

WELLBORE DIAGRAM OF PROPOSED PLUGGED WELL

ATTACHMENT H-1

### STATE OF UTAH DIVISION OF OIL, GAS AND MINING

OPERATOR

**ADDRESS** 

### APPLICATION FOR INJECTION WELL - UIC FORM 1

Newfield Production Company

1001 17th Street, Suite 2000 Denver, Colorado 80202

Federal #1-	20-9-16						
Butte (Green I	River)				Lease No.	UTU-5201	8
section	20	township	98	range	 16E	county	Duchesne
or:	Enhanced Disposal?	Recovery? .		Yes[X] Yes[]	No[] No[X]		
to be drilled? g well,				Yes[] I	No [ X ]		
	sutte (Green I section for an existing r:  o be drilled? g well,	of an existing project?	Sutte (Green River)  section 20 township  of an existing project?  r: Enhanced Recovery? Disposal? Storage?  o be drilled? g well,	Sutte (Green River)  section 20 township 9S  of an existing project?  Enhanced Recovery?  Disposal?  Storage?	Sutte (Green River)         20         township         9S         range           of an existing project?         Yes [ X ]           or:         Enhanced Recovery?         Yes [ X ]           Disposal?         Yes [ ] I           Storage?         Yes [ ] I           o be drilled?         Yes [ ] I           g well,	Sutte (Green River)         Lease No.           section         20         township         9S         range         16E           of an existing project?         Yes [X] No []           or:         Enhanced Recovery?         Yes [X] No []           Disposal?         Yes [] No [X]           Storage?         Yes [] No [X]           o be drilled?         Yes [] No [X]	Butte (Green River)         Lease No.         UTU-5201           section         20         township         9S         range         16E         county           of an existing project?         Yes [X] No []         Yes [X] No []         Yes [X] No [X]         Y

IMPORTANT: Additional information as required by R615-5-2 should accompany this form.

500 bpd pressure

5958

1769

3939

List of Attachments: Attachments "A" through "H-1"

I certify that this report is true and complete to the best of my knowledge.

from

rate

Proposed injection zone contains [x ] oil, [ ] gas, and/or [ ] fresh water within 1/2

Name:

Eric Sundberg

Signature

Title Phone No. Regulatory Lead (303) 893-0102

Date

(State use only)

Application approved by

Proposed injection interval:

mile of the well.

Proposed maximum injection:

Title

Approval Date

Comments:

### FEDERAL 1-20-9-16

Spud Date: 05/16/07 Put on Production: 07/25/07

GL: 6038' KB: 6050'

Proposed Injection Wellbore Diagram

Cement Top @ 60'

Casing Shoe @ 324'

Initial Production: BOPD.

MCFD, BWPD

#### SURFACE CASING

CSG SIZE; 8-5/8" GRADE: J-55 WEIGHT: 24#

LENGTH: 7 jts. (312.36') DEPTH LANDED: 324,21' KB

HOLE SIZE:12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt, est 7 bbls cmt to surf.

1/26/09

Packer @ 4110'

4160-4167'

4680-46943

4780-4795

5124-5138'

5526-5544

PBTD @ 5958' SHOE @ 6029'

TD @ 6050

FRAC JOB

07/19/07 5526-5544'

40327# 20/40 sand in 416 bbls Lightning 17 frac fluid. Treated @ avg press of 2186 psi w/avg rate of 24.7 BPM. ISIP 2165 psi. Calc flush: 5524 gal. Actual flush: 5002 gal.

07/19/07 5124-5138' Frac LODC sands as follows:

Frac CP1 sands as follows:

60273# 20/40 sand in 510 bbls Lightning 17 frac fluid. Treated @ avg press of 2674 psi w/avg rate of 24.8 BPM, ISIP 2760 psi. Calc flush: 5122 gal. Actual flush: 4582 gal.

07/19/07 4780-4795' Frac C sands as follows:

60060# 20/40 sand in 510 bbls Lightning 17 frac fluid. Treated @ avg press of 1833 psi w/avg rate of 24.8 BPM, ISIP 1800 psi. Calc flush: 4778 gal. Actual flush: 4288 gal.

07/19/07 4680-4694 Frac D2 sands as follows:

79938# 20/40 sand in 623 bbls Lightning 17 frac fluid. Treated @ avg press of 1860 psi w/avg rate of 24.8 BPM. ISIP 1960 psi. Calc flush: 4678 gal. Actual flush: 4120 gal

07/20/07 4160-4167 Frac GB6 sands as follows:

25213# 20/40 sand in 335 bbls Lightning 17 frac fluid. Treated @ avg press of 2145 psi w/avg rate of 24.3 BPM. ISIP 2025 psi. Calc flush: 5503 gal. Actual flush: 4914 gal

Pump Change. Updated r & t details.

### PRODUCTION CASING

CSG SIZE: 5-1/2' GRADE: J-55 WEIGHT: 15.5#

LENGTH: 137 jts. (6015,83') DEPTH LANDED: 6029.08' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 325 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.

CEMENT TOP: 60'

### <u>TUBI</u>NG

SIZE/GRADE/WT .: 2-7/8" / J-55 / 6.5# NO. OF JOINTS: 179 its (5506.29') TUBING ANCHOR: 5518.29' KB NO. OF JOINTS: 1 jts (30.52') SEATING NIPPLE: 2-7/8" (1.10') SN LANDED AT: 5551.61' KB NO. OF JOINTS: 2 jts (61.81')

TOTAL STRING LENGTH: EOT @ 5614.97' KB

### PERFORATION RECORD

07/10/07 5526-5544' 4 JSPF 72 holes 07/19/07 5124-5138' 4 ISPF 56holes 07/19/07 4780-4795' 4 JSPF 60 holes 07/19/07 4680-4694' 4 JSPF 56 holes 07/19/07 4160-4167' 4 JSPF 28 holes

### FEDERAL 1-20-9-16

617'FNL & 652' FEL

NE/NE Section 20-T9S-R16E

Duchesne Co, Utah

API #43-013-33066; Lease # UTU-52018



### WORK PROCEDURE FOR INJECTION CONVERSION

- 1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
- 2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
- 3. Test casing and packer.
- 4. Rig down and move out.

### REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS RULE R615-5-1

- 1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.
- 2. A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:
  - 2.1 The name and address of the operator of the project.

Newfield Production Company 1001 17<sup>th</sup> Street, Suite 2000 Denver, Colorado 80202

A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.

See Attachment A.

2.3 A full description of the particular operation for approval is requested.

Approval is requested to convert the Federal #1-20-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.

2.4 A description of the pools from which the identified wells are producing or have produced.

The proposed injection well will inject into the Green River Formation.

2.5 The names, description and depth of the pool or pools to be affected.

The injection zone is in the Green River Formation. For the Federal #1-20-9-16 well, the proposed injection zone is from Garden Gulch to Basal Carbonate (3939' - 5958'). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD, which ever is shallower. The Garden Gulch Marker top is at 3612' and the TD is at 6050'.

2.6 A copy of a log of a representative well completed in the pool.

The referenced log for the Federal #1-20-9-16 is on file with the Utah Division of Oil, Gas and Mining.

2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.

See Attachment B.

An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.

See Attachment C.

2.10 Any additional information the Board may determine is necessary to adequately review the petition.

Newfield Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.

This proposed injection well is on a Federal lease (Lease #UTU-52018) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.

### REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL, STORAGE AND ENHANCED RECOVERY WELLS SECTION V – RULE R615-5-2

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:
  - 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.

See Attachments A and B.

2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.

All logs are on file with the Utah Division of Oil, Gas and Mining.

2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

2.4 Copies of logs already on file with the Division should be referenced, but need not be refiled.

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.

The casing program is 8-5/8", 24# surface casing run to 324' KB, and 5-1/2", 15.5# casing run from surface to 6029' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.

See Attachment F.

### The proposed average and maximum injection pressures.

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1769 psig.

2.8 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.

The minimum fracture gradient for the Federal #1-20-9-16, for existing perforations (4160' - 5544') calculates at 0.81 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1769 psig. We may add additional perforations between 3612' and 6050'. See Attachments G and G-1.

2.9 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.

In the Federal #1-20-9-16, the proposed injection zone (3939' - 5958') is in the Garden Gulch to the Basal Carbonate of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

2.10 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.

See Attachments E through E-11.

Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

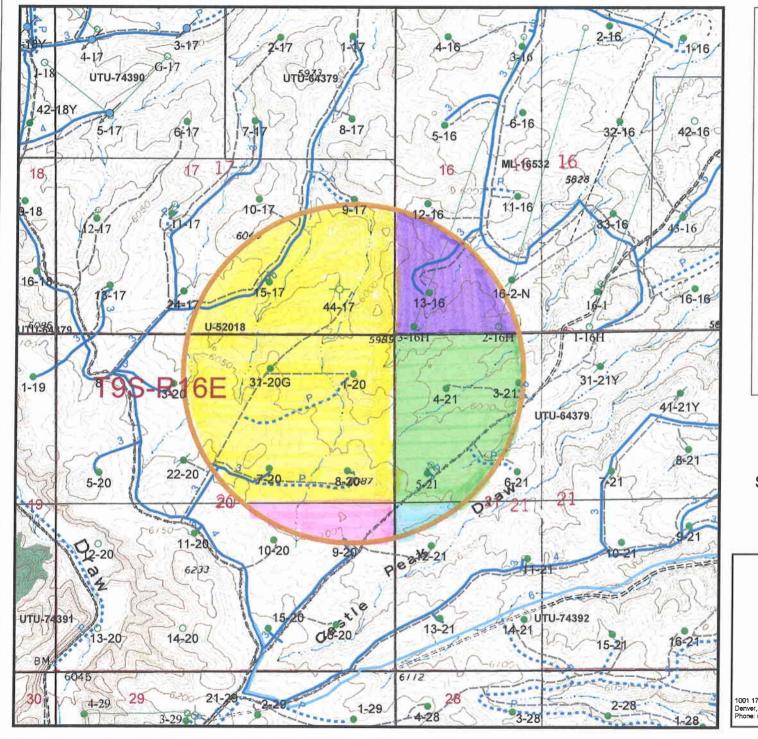
An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.

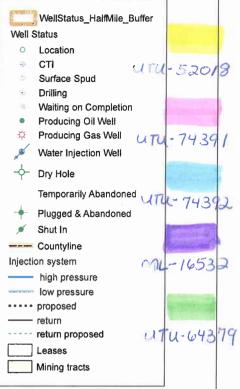
See Attachment C.

2.12 Any other information that the Board or Division may determine is necessary to adequately review the application.

Newfield Production Company will supply any requested information to the Board or Division.

### ATTACHMENT A





Federal 1-20 Section 20, T9S-R16E



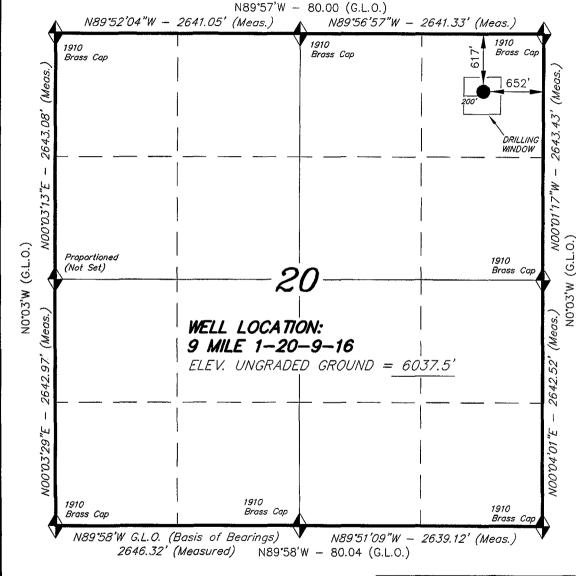
1/2 Mile Radius Map

**Duchesne & Uintah Counties** 

1001 17th Street Suite 2000 Denver, Colorado 80202 Phone: (303) 893-0102

March 13, 2012

### T9S, R16E, S.L.B.&M.



= SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SW) 9 MILE 1-20-9-16 (Surface Location) NAD 83 LATITUDE = 40° 01' 18.99" LONGITUDE = 110° 08' 09.95"

### NEWFIELD PRODUCTION COMPANY

WELL LOCATION, 9 MILE 1-20-9-16, LOCATED AS SHOWN IN THE NE 1/4 NE 1/4 OF SECTION 20, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT ONE ABOVE PLAT WAS PREPARED FROM FIELD FOR ACTUM. SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND FILEP No.189377

TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501

DATE SURVEYED: 12-31-05	SURVEYED BY: C.M.
DATE DRAWN: 01-04-06	DRAWN BY: L.C.S.
REVISED:	SCALE: 1" = 1000'

### **EXHIBIT B**

#	Legal Description	Lessor & Expiration	Lessee & Operating Rights	Surface Owner
1	T9S-R16E SLM	USA	Newfield Production Company	USA
	Section 17: S2	UTU-52018	Newfield RMI LLC	
	Section 20: N2	НВР		
2	T9S-R16E SLM	USA	Newfield Production Company	
	Section 19: E2SW, SE, LOTS 3, 4	UTU-74391	Newfield RMI LLC	
	Section 20: S2	НВР	ABO Petroleum Corp	
	Section 29: All		MYCO Industries Inc	
	Section 30: All		OXY Y-1 Company	
			Yates Petroleum Corp	
3	T9S-R16E SLM	USA	Newfield Production Company	USA
	Section 21: S2	UTU-74392	Newfield RMI LLC	
	Section 22: NENE, S2	НВР	ABO Petroleum Corp	
	Section 23: SWSW		MYCO Industries Inc	
	Section 24: SESE		OXY Y-1 Company	
	Section 26: NENE		Yates Petroleum Corp	
	Section 27: All			
	Section 28: All			
4	T9S-R16E SLM	State of Utah	Newfield RMI LLC	STATE of UTAH
	Section 16: All	ML- 16532	QEP Energy Company	
		НВР	El Paso E&P Company LP	
			American Petroleum Corp	
			Brave River Production	
			Trans Republic Resources Inc	
5	T9S-R16E SLM	USA	Newfield Production Company	USA
	Section 8: SWNE, SE	UTU-64379	Newfield RMI LLC	
	Section 9: SWSW	НВР	Yates Petroleum Corp	
	Section 17: NE			

Page 1 of 2

Section 18: E2SW, SE, LOTS 3,4 Section 19: NE, E2NW, LOTS 1,2

Section 21: N2

Section 22: W2NE, SENE, NW

Federal 1-20 Page 2 of 2

### ATTACHMENT C

### CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE:	Application for Approval of Class II Injection Well Federal #1-20-9-16
I hereby one-hal	certify that a copy of the injection application has been provided to all surface owners within a f mile radius of the proposed injection well.
Signed:	Newfield Production Company Eric Sundberg Regulatory Lead
Sworn t	o and subscribed before me this 30 th day of April , 2012.
	Public in and for the State of Colorado:  My Commission Expires  02/10/2013
wy Con	nmission Expires: 02/10/2013

### ATTACHMENT E

### FEDERAL 1-20-9-16

Spud Date: 05/16/07 Put on Production: 07/25/07

GL: 6038' KB: 6050'

Wellbore Diagram

Initial Production: BOPD, MCFD, BWPD

Frac CP1 sands as follows: flush: 5524 gal. Actual flush: 5002 gal.

> 60060# 20/40 sand in 510 bbls Lightning 17 frac fluid. Treated @ avg press of 1833 psi w/avg rate of 24.8 BPM. ISIP 1800 psi. Calc

SURFACE CASING FRAC JOB CSG SIZE: 8-5/8" Cement Top @ 60' 07/19/07 5526-5544 GRADE: J-55 40327# 20/40 sand in 416 bbls Lightning 17 frac fluid. Treated @ avg press of 2186 psi w/avg rate of 24.7 BPM. ISIP 2165 psi. Calc WEIGHT: 24# LENGTH: 7 jts. (312.36') DEPTH LANDED: 324.21' KB Casing Shoe @ 324' 07/19/07 5124-51383 Frac LODC sands as follows: HOLE SIZE:12-1/4" 60273# 20/40 sand in 510 bbls Lightning 17 frac fluid. Treated @ avg press of 2674 psi w/avg rate of 24.8 BPM. ISIP 2760 psi. Calc CEMENT DATA: 160 sxs Class "G" cmt, est 7 bbls cmt to surf. flush: 5122 gal. Actual flush: 4582 gal. 07/19/07 4780-47953 Frac C sands as follows: flush: 4778 gal. Actual flush: 4288 gal. PRODUCTION CASING 07/19/07 4680-4694' Frac D2 sands as follows: 79938# 20/40 sand in 623 bbls Lightning 17 CSG SIZE: 5-1/2" frac fluid. Treated @ avg press of 1860 psi w/avg rate of 24.8 BPM. ISIP 1960 psi. Calc GRADE: J-55 flush: 4678 gal. Actual flush: 4120 gal WEIGHT: 15.5# 07/20/07 4160-4167 Frac GB6 sands as follows: LENGTH: 137 jts. (6015.83') 25213# 20/40 sand in 335 bbls Lightning 17 DEPTH LANDED: 6029.08' KB frac fluid. Treated @ avg press of 2145 psi w/avg rate of 24.3 BPM. ISIP 2025 psi. Calc HOLE SIZE: 7-7/8" flush: 5503 gal. Actual flush: 4914 gal CEMENT DATA: 325 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ. 1/26/09 Pump Change. Updated r & t details. CEMENT TOP: 60' <u>TUBING</u> SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5# NO. OF JOINTS: 179 jts (5506.29') TUBING ANCHOR: 5518.29' KB NO. OF JOINTS: 1 jts (30.52') SEATING NIPPLE: 2-7/8" (1.10') SN LANDED AT: 5551.61' KB NO. OF JOINTS: 2 jts (61.81') TOTAL STRING LENGTH: EOT @ 5614.97' KB PERFORATION RECORD SUCKER RODS 07/10/07 5526-5544' 4 JSPF 72 holes 4160-4167 POLISHED ROD: 1-1/2" x 26' SM polished rods 07/19/07 5124-5138' 4 ISPF 56holes 07/19/07 4780-4795' 4 JSPF 60 holes SUCKER RODS:1-2', 4', 6' & 8' x 3/4" pony rods, 100-3/4" guided rods, 95-07/19/07 4680-4694' 4 JSPF 3/4" slick rods, 20-3/4" guided rods, 6-1 1/2" x 25' weight rods. 4680-4694 56 holes 07/19/07 4160-4167' 4 JSPF 28 holes PUMP SIZE: CDI 2-1/2" x 1-1/2" x 16'x 20'RHAC 4780-4795 STROKE LENGTH: 120" PUMP SPEED, 5 SPM: 5124-5138' Anchor @ 5518' 5526-55443 SN@ 5552' EOT @ 5615' NEWFIELD PBTD @ 5958' SHOE @ 6029'

TD @ 6050

### FEDERAL 1-20-9-16

617'FNL & 652' FEL NE/NE Section 20-T9S-R16E Duchesne Co, Utah

API #43-013-33066; Lease # UTU-52018

### ATTACHMENT E-1

### Federal 9-17-9-16

Spud Date: 9-11-06 Put on Production: 11-01-06 GL: 5953' KB: 5965' SURFACE CASING CSG SIZE: 8-5/8' GRADE: J-55 WEIGHT: 24#

Wellbore Diagram

Cement top @ 30

Initial Production: BOPD. MCFD, BWPD

### FRAC JOB 10-27-06 5540-5572 Frac CP1 sands as follows: 89695# 20/40 sand in 672 bbls Lightning 17 frac fluid. Treated @ avg press of 1635 psi w/avg rate of 24.9 BPM. ISIP 2000 psi. Calc flush: 5040 gal. Actual flush: 5538 gal. 10-27-06 5236-5256 Frac LODC sands as follows: 80345# 20/40 sand in 604 bbls Lightning 17 frac fluid. Treated @ avg press of 2685 psi w/avg rate of 27.3 BPM. ISIP 2560 psi. Calc flush: 4746 gal. Actual flush: 5234 gal. 10-27-06 5129-5148 Frac A 3 sands as follows: 80324# 20/40 sand in 597 bbls Lightning 17 frac fluid. Treated @ avg press of 2175 psi w/avg rate of 24.7 BPM. ISIP 2240 psi. Calc flush: 4923 gal. Actual flush: 4410 gal. 10-27-06 4092-4114' Frac GB4 sands as follows: 38251# 20/40 sand in 358 bbls Lightning 17 frac fluid. Treated @ avg press of 1410 w/ avg rate of 14.3 BPM, ISIP 1490 psi. Calc flush: 4485 gal. Actual flush: 4410 gal. 2/23/07 Pump Change. Rod & Tubing detail updated

## 05/27/08 updated rod and tubing detail 11/23/09 Pump change. Updated rod and tubing detail PERFORATION RECORD 10-17-06 5540-5572' 4 JSPF 10-27-06 5236-5256' 4 JSPF 10-27-06 5129-5148' 4 JSPF 10-27-06 4092-4114' 4 JSPF 4092-4114 5129-51483 5236-5256 Anchor @ 5486

TD @ 6050'

### LENGTH: 7 jts (310.22') Casing Shoe @ 322 DEPTH LANDED: 322.07° KB HOLE SIZE:12-1/4" CEMENT DATA: 160 sxs Class "G" cmt, est 6 bbls cmt to surf. PRODUCTION CASING CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15,5# LENGTH: 139 jts. (6032.96\*) DEPTH LANDED: 6044.21' KB HOLE SIZE: 7-7/8° CEMENT DATA: 325 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ CEMENT TOP AT: 30 **TUBING** SIZE/GRADE/WT.: 2-7/8" / J-55 / 6,5# NO. OF JOINTS: 175 jts (5485.5') TUBING ANCHOR: 5485.5' KB NO. OF JOINTS: 2 jts (63.01) SEATING NIPPLE: 2-7/8" (1-10") SN LANDED AT: 5551.2" KB NO. OF JOINTS: 2 jts (63.1') TOTAL STRING LENGTH: EOT @ 5616' KB SUCKER RODS POLISHED ROD: 1-1/2" x 22' SM SUCKER RODS: 1-2'x 3/4" pony rod, 1-6'x 3/4" pony rod, 1-8'x 3/4" pony rod, 99-34" guided rods, 86-34" guided rods, 30-34" guided rods, 6-1 1/2" weight PUMP SIZE: 2-1/2" x 1-1/2" x 12' x 16' RHAC pump STROKE LENGTH: 86" PUMP SPEED, SPM: 5 SPM SN 5551' 5540-5572' EOT @ 5616' NEWFIELD PBTD @ 5998' SHOE @ 6044

### Federal 9-17-9-16

2108' FSL & 636' FEL NE/SE Section 17-T9S-R16E Duchesne Co, Utah

API # 43-013-33032; Lease # UTU-52018

80 holes

76 holes

88 holes

### ATTACHMENT E-2

### Federal 15-17-9-16

Spud Date: 08/18/06 Put on Production: 10/13/06

DEPTH LANDED: 322,031 KB

K.B.: 6000, G.L5988 SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: 1-55

WEIGHT: 24# LENGTH: 7 jts. (310.18')

HOLE SIZE: 12-1/4"

Wellbore Diagram

Cement Top @60

Initial Production: BOPD. MCFD. BWPD

#### FRAC JOB

10/10/06 5817-58513

Frac CP5 sands as follows:

89648# 20/40 sand in 681 bbls Lightning 17 frac fluid. Treated @ avg press of 1910 psi w/avg rate 25.3 BPM. ISIP 2250 psi. Calc flush: 5849 gal. Actual flush: 5309 gal.

10/10/06 5515-55383

10/11/06 4980-4987

Frac CP1 sands as follows:

60364# 20/40 sand in 493 bbls Lightning 17 frac fluid. Treated @ avg press of 1727 psi w/avg rate of 25.1 BPM. ISIP 2120 psi. Calc flush: 5536 gal. Actual flush: 4998 gal.

Frac A.5 sands as follows:

29934# 20/40 sand 393 bbls Lightning 17 frac fluid. Treated @ avg press of 2320 psi w/avg rate of 25 BPM. ISIP 2500 psi. Calc flush: 4985 gal. Actual flush: 4473 gal.

10/11/06 4684-4698 Frac D3 sands as follows:

87753# 20/40 sand in 610 bbls Lightning 17 frac fluid. Treated @ avg press of 1960 psi w/avg rate of 25 BPM. ISIP 2250 psi. Calc flush: 4696 gal. Actual flush:4578 gal.

Pump Change 11/30/06 05/02/08 Stuck Pump 3/19/10

Rod & Tubing Detail updated Tubing detail updated

11/24/2011

4684-4698

4980-4987

5515-5538'

Anchor @ 5786

Pump change. Updated rod and tubing detail.

Pump Change. Updated rod & tubing detail.

### PRODUCTION CASING

CSG SIZE: 5-1/2\* GRADE: J-55 WEIGHT: 15.5#

LENGTH: 136 its. (5986.81') DEPTH LANDED: 6000.06' KB

HOLE SIZE: 7-7/8

CEMENT DATA: 325 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ

CEMENT DATA: 160 sxs Class "G" cmt, est 6 bbls cmt to surf.

CEMENT TOP: 60

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5# NO. OF JOINTS: 183 jts (5785.5') TUBING ANCHOR: 5785.5' KB NO. OF JOINTS: 1 jts (31.7') SEATING NIPPLE: 2-7/8" (1.10') SN LANDED AT: 5820.1° KB NO. OF JOINTS: 2 jts (63.4') TOTAL STRING LENGTH: EOT @ 5885' KB

### SUCKER RODS

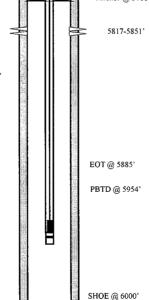
POLISHED ROD: 1-1/2" x 22' SM

SUCKER RODS: 1-2' x 3/4" pony rods, 1-4' x 3/4" pony rod, 1-6' x 3/4" pony rod, 1-8' x ¼" pony rod, 98- $\frac{1}{2}$ " = 2450' guided rods, 97- $\frac{1}{2}$ " = 2425' guided rods, 30- $\frac{1}{2}$ " = 750' guided rods, 6-1  $\frac{1}{2}$ " = 150' weight bars, 1 -  $\frac{1}{2}$ " = 2' pony

PUMP SIZE: 2-1/2" x 1-1/2" x 17'

STROKE LENGTH: 86"

PUMP SPEED, SPM: 4.5



TD @ 6005

SN 5820

### PERFORATION RECORD

10/05/06 5817-5851 68 holes 10/10/06 5515-5538' 4 JSPF 92 holes 10/11/06 4980-4987 4 JSPF 28 holes 10/11/06 4684-46983 4 JSPF 56 holes

### Federal 15-17-9-16

810' FSL & 1961' FEL SW/SE Section 17-T9S-R16E

Duchesne Co, Utah

API #43-013-33037; Lease #UTU-52018

## Attachment E-3

### Federal 7-20-9-16

Spud Date: 6-6-07

Put on Production: 8-12-05 GL: 6078' KB: 6090'

### Injection Wellbore Diagram

Packer @ 4621

4655-46683

4946-4957° 5030-5038°

5279-5290

PBTD @ 5879°

TD @ 5950'

EOT @ 4626'

TOC @ 48

Casing Shoe @ 319

#### SURFACE CASING

CSG SIZE, 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jnts (306 9")
DEPTH LANDED: 318.75" KB

HOLE SIZE 12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15.5#

LENGTH 1343 jts (5918 61') DEPTH LANDED: 5931 86' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ

CEMENT TOP AT 48

#### **TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO OF JOINTS: 146 jts (4605')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 4617' KB

ARROW #1 PKR CE @ 4621.42'

TOTAL STRING LENGTH EOT @ 4626'

### FRAC JOB

7-9-07 5279-5290" Frac LODC, sands as follows: 29,554# 20/40 sand in 370 bbls Lightning 17 frac fluid. Treated @ avg press of 1987 psi w/avg rate of 24.7 BPM. ISIP 2284 psi. Calc flush 5277 gal Actual flush 4746 gal 7-9-07 5030-5038 Frac LODC sands as follows: 24,274# 20/40 sand in 368 bbls Lightning 17 frac fluid. Treated @ avg press of 2044 psi w/avg rate of 24.7 BPM. ISIP 2143 psi. Calc flush: 5028 gal. Actual flush: 4557 gal. 7-9-07 4946-4957 Frac A3 sands as follows: 40,017# 20/40 sand in 427 bbls Lightning 17 frac fluid Treated @ avg press of 1862 psi w/avg rate of 24.7 BPM. ISIP 2238 psi Calc flush: 4944 gal Actual flush: 4389 gal. 7-9-07 4655-4668 Frac D3 sands as follows: 48.763# 20/40 sand in 450 bbls Lightning 17 frac fluid 24.8 BPM. Calc flush: 4653 gal Actual flush: 4578 gal. 6/9/09 Stuck Pump. Updated rod & tubing details. 5/26/11 Pump Change Updated rod and tubing 01/30/12 Parted rods. Updated rod and tubing detail 3/12/12 Pump change: Updated rod & tubing detail 5/9/12 Convert to Injection Well 5/11/12 Conversion MIT Finalized - update tbg detail

### PERFORATION RECORD

7-3-07 5279-5290' 4 JSPF 44 holes 7-9-07 5030-5038' 4 JSPF 32 holes 7-9-07 4946-4957' 4 JSPF 44 holes 7-9-07 4655-4668' 4 JSPF 52 holes



### Federal 7-20-9-16

2098' FNL & 1961' FEL SW/NE Section 20-T9S-R16E Duchesne Co, Utah

API #43-013-33106; Lease #UTU-52018

### ATTACHMENT E-4

### FEDERAL 8-20-9-16

Spud Date: 06/05/07 Initial Production: BOPD, Put on Production: 07/09/07 Wellbore Diagram MCFD, BWPD GL: 6055' KB: 6067' FRAC JOB 07/02/07 5484-5492 Frac CP1 sands as follows: 15470# 20/40 sand in 274 bbls Lightning 17 SURFACE CASING frac fluid. Treated @ avg press of 2490 psi w/avg rate of 24.6 BPM, ISIP 2369 psi. Calc CSG SIZE: 8-5/8" flush: 5482 gal. Actual flush: 4981 gal. GRADE: LSS Cement Top @ 210 Frac LODC sands as follows: 07/02/07 5270-5280 WEIGHT: 24# 29548# 20/40 sand in 365 bbls Lightning 17 frac fluid. Treated @ avg press of 2397 psi w/avg rate of 24.4 BPM. ISIP 2486 psi. Calc LENGTH: 7 jts. (303.80°) DEPTH LANDED: 313.8° KB flush: 5268 gal. Actual flush: 4796 gal. HOLE SIZE: 12-1/4" 07/02/07 5129-5176 Frac LODC sands as follows: 4712# 20/40 sand in 389 bbls Lightning 17 CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf. frac fluid. Blender Broke. Need to Refrac. ISIP 2340 psi. Calc.flush: 5127 gal. Actual flush: 5292 gal. 07/03/07 5129-5176 Frac LODC sands as follows: PRODUCTION CASING 95147# 20/40 sand in 706 bbls Lightning 17 CSG SIZE: 5-1/2' frac fluid. Treated @ avg press of 2554 psi w/avg rate of 24 BPM. ISIP 2775 psi. Calc GRADE: J-55 flush: 5127 gal. Actual flush: 4662 gal. WEIGHT: 15.5# 07/03/07 5055-5074 Frac LODC sands as follows: LENGTH: 134 jts. (5936.00') 71220# 20/40 sand in 719 bbls Lightning 17 frac fluid. Treated @ avg press of 2372 psi DEPTH LANDED: 5934,00° KB w/avg rate of 24.3 BPM. ISIP 2680 psi. Calc HOLE SIZE: 7-7/8' flush: 5053 gal. Actual flush: 5095 gal. CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ 07/03/07 4963-4971 Frac A1 sands as follows: 40277# 20/40 sand in 492 bbls Lightning 17 CEMENT TOP: 210 frac fluid. Treated @ avg press of 2725 psi 4570-4576 w/avg rate of 24.5 BPM. ISIP 2290 psi. Calc flush: 4961 gal. Actual flush: 4452 gal 4656-4663 07/05/07 4656-4709 Frac D3&C sands as follows: TUBING 29723# 20/40 sand in 376 bbls Lightning 17 SIZE/GRADE/WT.: 2-7/8" / J-55 / 6,5# 4704-4709 frac fluid. Treated @ avg press of 1630 psi w/avg rate of 24.5 BPM. ISIP 1700 psi. Calc flush: 4654 gal. Actual flush: 4200 gal NO. OF JOINTS: 174 jts (5422.3') TUBING ANCHOR: 5434.3' KB 07/05/07 4570-4576 Frac DI sands as follows: NO. OF JOINTS: 1 it (31.7') 42080# 20/40 sand in 356 bbls Lightning 17 4963-4971 frac fluid. Treated @ avg press of 1829 psi SEATING NIPPLE: 2-7/8" (1.10') 5055-5074 w/avg rate of 24.4 BPM. ISIP 1875 psi. Calc SN LANDED AT: 5468.7' KB flush: 4568 gal. Actual flush: 4494 gal. 5129-5138` 2/10/09 NO. OF JOINTS: 2 jts (62.7°) Pump Change. Updated r & t details 5164-5176 5/26/2010 TOTAL STRING LENGTH: EOT @ 5533' KB Tubing leak. Updated rod and tubing detail. 5270-5280 PERFORATION RECORD SUCKER RODS 06/28/07 5484-5492' 4 JSPF POLISHED ROD: 1-1/2" x 26' SM polished rods 07/02/07 5270-52801 4 ISPF 40 holes 4 JSPF 07/02/07 5164-5176' 48 holes SUCKER RODS: 100- ¾" guided rods, 58- ¾" sucker rods, 54- ¾" guided rods, Anchor @ 5434 07/02/07 5129-5138\* 4 JSPF 6- 1 1/2" weight bars 36 holes 5484-5492 SN 5469 07/03/07 5055-50741 4 ISPF 76 holes PUMP SIZE: CDI 2-1/2" x 1-1/2" x 12' x 16' RHAC 07/03/07 4963-4971 4 JSPF 32 holes STROKE LENGTH 07/03/07 4704-4709 4 JSPF 20 holes PUMP SPEED, SPM EOT @ 5533 07/03/07 4656-4663 4 JSPF 28 holes 07/05/07 4570-4576' 4 JSPF 24 holes PBTD @ 5880 **FEDERAL 8-20-9-16** SHOE @ 5934' 2133'FNL & 746' FEL TD @ 5950' SE/NE Section 20-T9S-R16E

Duchesne Co, Utah
API #43-013-33107; Lease # UTU-52018

### Federal 9-20-9-16

Attachment E-5

Spud Date: 6-14-07

Put on Production: 8-23-07

GL: 6095' KB: 6107'

SURFACE CASING

LENGTH: 7 jts (302,22')

DEPTH LANDED: 313,12' KB HOLE SIZE: 12-1/4"

PRODUCTION CASING

LENGTH: 156 jts. (6053.98') DEPTH LANDED: 6067.23' KB

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

HOLE SIZE: 7-7/8"

CEMENT TOP AT: 88'

CEMENT DATA: 160 sxs Class "G" cmt, est 8 bbls cmt to surf.

CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

### Wellbore Diagram

Cement top @ 88

Casing Shoe @ 313'

Initial Production: BOPD. MCFD. BWPD

### FRAC JOB

08-17-07 5248-52543 Frac LODC sands as follows:

14994# 20/40 sand in 282 bbls Lightning 17 frac fluid. Treated @ avg press of 2477 psi w/avg rate of 24.8 BPM. ISIP 2540 psi. Calc

flush: 5246 gal. Actual flush: 4704 gal.

Frac LODC sands as follows: 08-17 5000-50283

151355# 20/40 sand in 1050 bbls Lightning 17 frac fluid. Treated @ avg press of 1647 psi w/avg rate of 24.8 BPM. ISIP 2100 psi. Calc flush: 4998 gal. Actual flush: 4494 gal.

Frac B.5 sands as follows:

19761# 20/40 sand in 294 bbls Lightning 17 frac fluid. Treated @ avg press of 2232 psi w/avg rate of 24.8 BPM. ISIP 4148 psi. Calc flush: 4762 gal. Actual flush: 3839 gal.

Frac D2 sand as follows:

45991# 20/40 sand in 435 bbls Lightning 17 frac fluid. Treated @ avg press of 2094 w/ avg rate of 24.8 BPM. ISIP 1850 psi. Calc flush: 4600 gal. Actual flush: 4515 gal.

Pump change. Updated rod and tubing detail.

08-17-07 4764-47743

08-17-07 4602-4611'

2/1/2010

4602-4611

4767-4774

5000-5028

Anchor @ 5201' 5248-5254

EOT @ 5331'

PBTD @ 6027' SHOE @ 6067

TD @ 6075

SN 52663

### **TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6,5# NO. OF JOINTS: 165 its (5188.5') TUBING ANCHOR: 5200,5' KB NO. OF JOINTS: 2 jts (62.9') SEATING NIPPLE: 2-7/8" (1.10') SN LANDED AT: 5266.3' KB NO. OF JOINTS: 2 jts (62.9')

TOTAL STRING LENGTH: EOT @ 5331.0' KB

### PERFORATION RECORD

08-13-07 5248-5254' 4 JSPF 24 holes 08-17-07 5000-5028' 4 JSPF 112 holes 08-17-07 4767-4774' 4 JSPF 28 holes 08-17-07 4602-4611' 4 JSPF 36 holes

### SUCKER RODS

POLISHED ROD: 1-1/2" x 26' SM

SUCKER RODS: 1-6' x 3/4" pony rod, 1-4' x 3/4" pony rod, 100-3/4" guided rods, 82-3/4" sucker rods, 22-3/4" guided rods, 6-11/2" weight bars

PUMP SIZE: 2-1/2" x 1-1/2" x 18' RHAC

STROKE LENGTH: 120" PUMP SPEED, SPM: 5 SPM

### NEWFIELD

#### Federal 9-20-9-16

2011'FSL & 789' FEL (NE/SE) Section 20, T9S, R16E Duchesne County, Utah API #43-013-33068; Lease # UTU-74391

Attachment E-6

#### Federal 3-21-9-16

Spud Date: 10-24-06 Initial Production: BOPD. Put on Production: 12-7-06 Wellbore Diagram MCFD, BWPD GL: 5975' KB: 5987' SURFACE CASING FRAC JOB CSG SIZE: 8-5/8" 11-30-06 5742-5755 Frac CP4 sands as follows: 29540# 20/40 sand in 399 bbls Lightning 17 GRADE: J-55 frac fluid. Treated @ avg press of 2075 psi WEIGHT: 24# Cement top @ 90' w/avg rate of 24.9 BPM. ISIP 2100 psi. Calc flush: 5740 gal. Actual flush: 5233 gal. LENGTH: 7 its (310.86') 12-01-06 5500-5523 Frac CP1 sands as follows: DEPTH LANDED: 322.71' KB 89095# 20/40 sand in 713 bbls Lightning 17 HOLE SIZE:12-1/4" frac fluid. Treated @ avg press of 1762 psi w/avg rate of 24.8 BPM. ISIP 1830 psi. Calc CEMENT DATA: 160 sxs Class "G" cmt, est 2 bbls cmt to surf. flush: 5498 gal. Actual flush: 4994 gal. 12-01-06 5194-5232' Frac LODC sands as follows: 126238# 20/40 sand in 886 bbls Lightning 17 frac fluid. Treated @ avg press of 2565 psi w/avg rate of 24.7 BPM. ISIP 2450 psi. Calc flush: 5192 gal. Actual flush: 4675 gal. PRODUCTION CASING 12-01-06 4984-5002 CSG SIZE: 5-1/2" Frac A1 sands as follows: 18951#20/40 sand in 288 bbls Lightning 17 GRADE: I-55 frac fluid. Treated @ avg press of 2110 w/ avg rate of 24.9 BPM. ISIP 2130 psi. Calc WEIGHT: 15.5# flush: 4982 gal. Actual flush: 4519 gal. LENGTH: 134 jts. (5839.32') 12-01-06 4876-4881' Frac B2 sands as follows: DEPTH LANDED: 5852,57' KB 12667# 20/40 sand in 262 bbls Lightning 17 HOLE SIZE: 7-7/8' frac fluid. Treated @ avg press of 2135 w/ avg rate of 25.0 BPM, ISIP 1710 psi. Calc CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ. flush: 4874 gal. Actual flush: 4788 gal. CEMENT TOP AT: 90' 03/10/07 Pump Change. Update rod and tubing details. 12/19/08 Tubing Leak, Updated rod & tubing details. 09/08/08 Parted Rods. Updated rod & tubing details. **TUBING** SIZE/GRADE/WT .: 2-7/8" / J-55 / 6,5# NO. OF JOINTS: 170 jts (5464.16') 4876-4881 TUBING ANCHOR: 5476,16' KB NO. OF JOINTS: 1 jts (31.59') 4984-5002 SEATING NIPPLE: 2-7/8" (1.10') SN LANDED AT: 5510.55' KB 5194-5205 NO. OF JOINTS: 1 jts (33.42') NO. OF JOINTS: 3jts (95,00) TOTAL STRING LENGTH: EOT @ 5646.27' KB 5212-5232 PERFORATION RECORD **SUCKER RODS** 11-27-06 5742-5755' 4 JSPF 52 holes 11-30-06 5500-5523' 4 JSPF 92 holes POLISHED ROD: 1-1/2" x 22' SM Anchor @ 5476' 12-01-06 5212-5232' 4 JSPF SUCKER RODS: 1-8', & 1-4 x ¼" pony rods, 99- ¼" scrapered rods, 95- ¾" plain rods, 40- %" scrapered rods, 6-1 %" weight rods. 80 holes 12-01-06 5194-5205' 4 JSPF 44 holes 12-01-06 4984-5002' 4 JSPF 72 holes PUMP SIZE: 2-1/2" x 1-1/2" x 14' RHAC w/SM plunger 5500-55233 12-01-06 4876-4881' 4 JSPF 20 holes STROKE LENGTH 86' SN 5511' PUMP SPEED, SPM: 5 SPM EOT @ 5646' 5742-5755 NEWFIELD PBTD @ 5806' SHOE @ 58527 Federal 3-21-9-16 TD @ 5965' 774' FNL & 1909' FWL NE/NW Section 21-T9S-R16E

Duchesne Co, Utah
API # 43-013-33019; Lease # UTU-64379

## ATTACHMENT E-7

#### Federal 4-21-9-16

Spud Date: 10-25-06 Initial Production: Put on Production: 12-12-06 Wellbore Diagram MCFD, BWPD GL: 5991' KB: 6003' SURFACE CASING FRAC JOB CSG SIZE: 8-5/8" 12-04-06 5494-5512 Frac CPI sands as follows: GRADE: J-55 5213# 20/40 sand in 385 bbls Lightning 17 frac fluid. Treated @ avg press of 2157 psi WEIGHT: 24# Cement top @ 110 w/avg rate of 25 BPM. ISIP 2550 psi. Calc LENGTH: 7 its (310.54') flush: 5492 gal. Actual flush: 10458 gal. Frac LODC sands as follows: DEPTH LANDED: 322.39' KB 12-04-06 5204-5222 23667# 20/40 sand in 320 bbls Lightning 17 frac fluid. Treated @ avg press of 2620 psi w/avg rate of 25 BPM. ISIP 2850 psi. Calc HOLE SIZE:12-1/4" CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf. flush: 5202 gal. Actual flush: 4704 gal. 12-05-06 4993-5072 Frac A3, A1 sands as follows: 117759# 20/40 sand in 829 bbls Lightning 17 frac fluid. Treated @ avg press of 2350 psi w/avg rate of 25 BPM. ISIP 2200 psi. Calc flush: 4991 gal. Actual flush: 4704 gal. PRODUCTION CASING 12-05-06 4636-4654 Frac DS2 sands as follows: CSG SIZE: 5-1/2" 80794# 20/40 sand in 588 bbls Lightning 17 GRADE: J-55 frac fluid. Treated @ avg press of 1519 w/ avg rate of 25 BPM. ISIP 2000 psi. Calc WEIGHT: 15.5# flush: 4634 gal. Actual flush: 4158 gal. LENGTH: 135 jts. (5924,58') Frac PB11 sands as follows: 20165# 20/40 sand in 265 bbls Lightning 17 12-05-06 4400-4406 DEPTH LANDED: 5937.83' KB HOLE SIZE: 7-7/8" frac fluid. Treated @ avg press of 2077 w/ avg rate of 25 BPM. ISIP 1720 psi. Calc CEMENT DATA: 300 sxs Prem. Lite II mixed & 452 sxs 50/50 POZ flush: 4398 gal. Actual flush: 4284 gal. CEMENT TOP AT: 110' 11/13/08 Parted rods. Updated rod &tubing details. 4400-44063 TUBING SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5# 4636-4654 NO. OF JOINTS: 173 its (5453,00') 4993-5003 TUBING ANCHOR: 5465.00' KB NO. OF JOINTS: 1 jts (31.52') SEATING NIPPLE: 2-7/8" (1.10') 5062-50723 SN LANDED AT: 5499,32' KB NO. OF JOINTS: 2 jts (63.04') 5204-5210' TOTAL STRING LENGTH: EOT @ 5563.91' KB 5214-5222 Anchor @ 5465' PERFORATION RECORD SUCKER RODS SN 5499 11-29-06 5494-5512' 4 JSPF POLISHED ROD: 1-1/2" x 22' SM 12-04-06 5214-5222' 4 JSPF 32 holes SUCKER RODS: 1-2', 4', 6', 8' x ¾" pony rods, 99- ¾" guided rods, 81- ¾" plain rods, 32- ¾" guided rods, 6- 1 ½" weight rods. 12-04-06 5204-5210' 4 JSPF 24 holes 12-04-06 5062-5072' 4 JSPF 40 holes 12-04-06 4993-5003" 4 JSPF 40 holes PUMP SIZE: 2-1/2" x 1-1/2" x 10' x 14' RHAC w/SM plunger 12-05-06 4636-4654' 4 JSPF 72 holes STROKE LENGTH: 86' 12-05-06 4400-4406' 4 JSPF 24 holes PUMP SPEED, SPM: 5 SPM EOT @ 5564' NEWFIELD PBTD @ 5916' SHOE @ 5937' Federal 4-21-9-16 TD @ 5965' 851' FNL & 782' FWL NW/NW Section 21-T9S-R16E Duchesne Co, Utah

API # 43-013-33069; Lease # UTU-64379

# ATTACHMENT E-8

#### Federal 5-21-9-16

Spud Date: 10/21/06 Initial Production: Put on Production: 12/02/06 Wellbore Diagram MCFD, BWPD K B : 6048° G L : 6036° SURFACE CASING FRAC JOB CSG SIZE: 8-5/8" 11/22/06 5852-5860 Frac CP5 sands as follows: GRADE: J-55 24030# 20/40 sand in 364 bbls Lightning 17 Cement Top@ 50 frac fluid. Treated @ avg press of 2590 psi WEIGHT: 24# w/avg rate of 24.8 BPM, ISIP 2850 psi. Calc LENGTH: 7 its. (310.62') flush: 5858 gal. Actual flush: 5334 gal. 11/22/06 5724-5732 Frac CP4 sands as follows: DEPTH LANDED: 322.47" KB 37476# 20/40 sand in 415 bbls Lightning 17 HOLE SIZE:12-1/4" frac fluid. Treated @ avg press of 2400 psi w/avg rate of 24.9 BPM. ISIP 2500 psi, Calc CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf. flush: 5730 gal. Actual flush: 5216 gal. 11/22/06 5482-5502 Frac CP1 sands as follows: 56615# 20/40 sand in 467 bbls Lightning 17 PRODUCTION CASING frac fluid. Treated @ avg press of 1940 psi w/avg rate of 24.9 BPM, ISIP 2200 psi. Calc CSG SIZE: 5-1/2" flush: 5500 gal. Actual flush: 4977 gal. GRADE: J-55 11/24/06 4584-4652 Frac D1, D2 sands as follows: 156867# 20/40 sand in 1002 bbls Lightning17 frac fluid. Treated @ avg press of 1675 psi w/avg rate of 25.1 BPM. ISIP 1960 psi. Calc WEIGHT: 15.5# LENGTH: 135 jts. (5927.96') DEPTH LANDED: 5941.21' KB flush: 4650 gal. Actual flush: 4494 gal. 03/21/07 Pump Change: Updated rod and tubing HOLE SIZE: 7-7/8° CEMENT DATA: 325 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ. 6/1/2010 Pump change. Updated rod and tubing detail. CEMENT TOP: 50 9/7/2010 Pump change. Updated rod and tubing detail. 10/22/10 4998-5016 Frac A3 sands as follows: 61766# 20/40 sand in 501 bbls Lightning17 frac fluid. **TUBING** 10/25/10 Re-Completion SIZE/GRADE/WT.: 2-7/8" / J-55 / 6,5# NO. OF JOINTS: 175 jts (5640.6') TUBING ANCHOR: 5652.6' KB NO. OF JOINTS: Lits (31.6') SEATING NIPPLE: 2-7/8" (1-10') SN LANDED AT: 5687' KB 4584-4592 NO. OF JOINTS: 1 jts (31.6') GAS ANCHOR: 5719.7° 4638-4652 SEATING NIPPLE: 2-7/8" (1.2') NO. OF JOINTS: 3 jts (94.9') TOTAL STRING LENGTH: EOT @ 5822' KB 4998-5000 5006-5008' PERFORATION RECORD SUCKER RODS 5014-5016 11/09/06 5852-5860' 4 JSPF 32 holes POLISHED ROD: 1-1/2" x 33 11/22/06 5724-5732` 4 ISPF 32 holes SUCKER RODS: 1-4" x ½" , 1 – 6 x ½", 1 – 8 x ½" pony rod; 99- ½" guided rods; 91 - ½" sucker rods; 30- ½" guided rods, 6- 1 ½" weight bars 11/22/06 5482-5502 4 JSPF 80 holes 5482-5502 11/24/06 4686-4701 4 JSPF 60 holes 11/24/06 4638-4652 4 JSPF 56 holes PUMP SIZE: 2-1/2" x 1-3/4" x 20" x 24' RHAC w/SM plunger 11/24/06 4584-4592 4 JSPF 32 holes STROKE LENGTH: 74" 10/22/10 5014-5016" Anchor @ 5653' 3 JSPF 6 holes PUMP SPEED, SPM: 5 10/22/10 5006-5008 3 JSPF 6 holes SN 5687 10/22/10 4998-5000 3 JSPF 6 holes 5724-5732 EOT @ 5822' 5852-5860 NEWFIELD PBTD @ 5890' SHOE @ 5941' Federal 5-21-9-16 TD @ 5950' 2033' FNL & 551' FWL SW/NW Section 21-T9S-R16E Duchesne Co, Utah

API # 43-013-33020: Lease # UTU-64379

Attachment E-9

#### NGC Fed. 31-20G-9-16

Spud Date: 1/04/85 Put on Production: 4/08/85 GL: 6051' KB: 6030'

#### Wellbore Diagram

Initial Production: 88 BOPD, 62 MCFPD, 21 BWPD

#### SURFACE CASING FRAC JOB CSG SIZE: 8-5/8" 3/10/85 5530'-5556' Frac zone as follows: GRADE: K-55 120,000# 20/40 sand + 30,000# 12/20 sand in WEIGHT:24# 1263 bbl gel. Average treating pressure 2800 psi at 20 BPM. ISIP 2500 psi. Calc. flush: LENGTH: 7 jts. (319.75') 5530 gal. Actual flush: 3654 gal. 3/10/85 DEPTH LANDED: 319' 3/17/85 4760'-4780 Frac zone as follows: HOLE SIZE:12-1/4" 45,000# 20/40 sand + 12,135# 12/20 sand in CEMENT DATA: 250 sxs Class "H" 1112 bbl gel. Average treating pressure 3100 psi at 20 BPM. ISIP 1800 psi. Calc. flush: 4760 gal. Actual flush: 1260 gal. 4692'-4702' 3/26/85 Frac zone as follows: 32,000# 20/40 sand + 14,000# 12/20 sand in 581 bbl gel. Average treating pressure 3200 psi at 25 BPM. ISIP 2000 psi. Calc flush 4692 gal. Actual flush: 3444 gal. 5082'-5105' 1/31/98 Frac zone as follows: 120,000# 20/40 sand in 489 bbl gel Average PRODUCTION CASING treating pressure 6600 psi at 24.8 BPM. ISIP 4693 psi Calc flush: 1317 gal Actual flush. CSG SIZE: 5-1/2" / J-55 LT&C / 15.5# 1737 gal. LENGTH: 74 jts. CSG SIZE: 5-1/2" / K-55 / 15 5# LENGTH: 74 jts. DEPTH LANDED: 6118 Cement Top@ 2450' HOLE SIZE 7-7/8' CEMENT DATA: 240 sxs Lite, tail w/ 570 sxs Class "H" CEMENT TOP AT 2450' per CBL **TUBING** SIZE/GRADE/WT : 2-7/8" / N-80 / 6.5# NO. OF JOINTS: 172 jts. (5457.93') TUBING ANCHOR. 5469.93' KB NO. OF JOINTS: 2 its (62.00') SN LANDED AT: 1 10' x 2 7/8" (5533.03') KB NO. OF JOINTS: 1 jt. (31 90') TOTAL STRING LENGTH: 5564.93' KB 4692'-4702' 4760'-4780' SUCKER RODS POLISHED ROD: 1-1/4" X 22 SUCKER RODS 4 - 1-1/2" weight rods, 154 - 3/4" slick rods, 61 - 7/8" guided rods, 1-4', 1-6', 1-10' x 7/8" pony rods 5082'-5092' PUMP SIZE: 2-1/2" x 1-1/2' x 16' RHAC STROKE LENGTH: PUMP SPEED: 5095'-5105' LOGS: DIL, LDT-CNL, EPT, LSS, GR, SP, ABCL, CBL Anchor @ 5469' PERFORATION RECORD 5530'-5556' 3/02/85 5530'-5556' 4 SPF 104 holes 3/13/85 4764'-4780' 4 SPF 64 holes 4760'-4780' 3/15/85 4 SPF 80 holes 3/23/85 4692'-4702' 40 holes 1/30/98 5082'-5092' 4 SPF 40 holes 1/30/98 5095'-5105' 4 SPF 40 holes

SN @ 5533'KB EOT @ 5564'KB

PBTD @ 5991'KB TD @ 6150'



NGC Fed. #31-20G-9-16 540' FNL & 1944' FEL NWNE Section 20-T9S-R16E Duchesne Co, Utah API #43-013-31071; Lease #U-52018

## ATTACHMENT E-10

#### State 13-16-9-16

Spud Date: 4/9/08

Put on Production: 6/18/08 GL: 5959' KB: 5971'

#### Wellbore Diagram

3978-3986

4156-4164

4670-4680

4694-47013

Anchor @ 5473'

5506-5516'

5520-5528

EOT @5540'

PBTD @ 5742

TD @ 5770'

#### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24# LENGTH: 7jts (313.38') HOLE SIZE: 12-1/4"

CEMENT DATA: To Surface with 160 sx Class 'G' cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15.5# LENGTH: 132jts HOLE SIZE: 7-7/8" DEPTH LANDED: 5763-293

CEMENT DATA: 275 sx Premlite 11 and 400 sx 50/50 Poz

CEMENT TOP AT: 46

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5# NO. OF JOINTS: 177 jts (5460.9') TUBING ANCHOR: 5472.9' NO. OF JOINTS: 1jt (31.70') SEATING NIPPLE: 2-7/8" (1,10') SN LANDED AT: 5507.1'kb NO. OF JOINTS: 1 jts (31.10') TOTAL STRING LENGTH: EOT @ 5540

#### SUCKER RODS

POLISHED ROD: 1-1/2" x 26' polished rod

SUCKER RODS. 1 x ½" = 2' pony rods, 113-3/4" = 2825' guided rods, 55-3/4" = 1375' sucker rods, 41 -3/4" = 1025' guided rods, 6-1 1 ½" = 150'sinker

PUMP SIZE: CDI 2-1/2" x 1-1/4" x 12' x 16' RHAC pump

STROKE LENGTH: 100" PUMP SPEED, SPM: 4

# **NEWFIELD**

State 13-16-9-16 652' FSL & 524' FWL SW/SW Section 16-T9S-R16E Duchesne Co, Utah API #43-013-33853; Lease #Utah State ML-16532

#### FRAC JOB

06-06-08 5506-5616 Frac CP1 sds as follows: 40,770# 20/40 sand in 426 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1994 psi w/ ave rate of 23.8 BPM. ISIP 2188 psi. Actual Flush: 4914 gals.

06-06-08 4670-4680" Frac D2 sds as follows:

 $40,\!545\#\,20/40$  sand in 410 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1811 psi w/ ave rate of 23.8 BPM. ISIP 1920 psi. Actual Flush: 4120 gals.

06-06-08 4156-4164 Frac GB6 sds as follows:

50,204# 20/40 sand in 438 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1855 psi w/ ave rate of 24.0 BPM. ISIP 1810 psi. Actual Flush: 3692 gals.

06-06-08 3978-3986' Frac GB2 sds as follows:

30,226# 20/40 sand in 366 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1552 psi w/ ave rate of 15.6 BPM. ISIP 1587 psi. Actual

1/6/09 Tubing Leak. Updated rod & tubing

9/30/09 Tubing Leak. Updated rod & tubing

07/24/10 Pump Change, Updated rod & tubing,

4/19/2011 Tubing Leak. Updated rods & tubing.

#### PERFORATION RECORD

3978-3986'	4 JSPF	32 holes
4156-4164'	4 JSPF	32 holes
4670-4680'	4 JSPF	40 holes
4694-4701	4 JSPF	28 holes
5506-5516'	4 JSPF	40 holes
5520-5528'	4 JSPF	32 holes

TVD TD 6.011

1553 East Highway 40 Vernal, UT 84078





A HALLIBURTON SERVICE

#### Water Analysis Report

**Production Company:** 

**NEWFIELD PRODUCTION** 

Well Name:

**SWDIF** 

Sample Point:

Sample Date: Sample ID:

After production filter

12/9/2011 WA-204150

Sales Rep: Darren Betts Lab Tech: Gary Peterson

> Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specific	s		Analysis @ Prop	perties in Sample Specifics	
Test Date:	12/9/2011	Cations	mg/L	Anions	mg/L
System Temperature 1 (°F):	300.00	Sodium (Na):	6799.09	Chloride (CI):	10000.00
System Pressure 1 (psig):	3000.00	Potassium (K):		Sulfate (SO <sub>4</sub> ):	2.00
System Temperature 2 (°F):	70.00	Magnesium (Mg):		Bicarbonate (HCO3):	1024.80
System Pressure 2 (psig):		Calcium (Ca):		Carbonate (CO <sub>3</sub> ):	0.00
Calculated Density (g/ml):		Strontium (Sr):		Acetic Acid (CH3COO)	0.00
pH:	8.20	Barium (Ba):		Propionic Acid (C2H5COO)	0.00
Calculated TDS (mg/L):		Iron (Fe):		Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	0.00
CO2 in Gas (%):	0.00	Zinc (Zn):		Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	0.00
Dissolved CO <sub>2</sub> (mg/L)):	0.00	Lead (Pb):		Fluoride (F):	0.00
H2S in Gas (%):		Ammonia NH3:		Bromine (Br):	0.00
H2S in Water (mg/L):	10.00	Manganese (Mn):		Silica (SiO2):	0.00

Notes:

(PTB = Pounds per Thousand Barrels)

			cium conate	Bariun	n Sulfate		ron Ifide		ron oonate		psum 94-2H2O		lestite SO4		alite IaCl	III II SE	inc Ilfide
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	РТВ
70	14	0.68	13.26	0.21	0.60	2.60	0.26	0.67	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	346	0.70	13.48	0.00	0.00	2.38	0.26	0.78	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	678	0.76	14.55	0.00	0.00	2.24	0.26	0.91	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	1009	0.82	15.79	0.00	0.00	2.16	0.26	1.02	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	1341	0.90	17.10	0.00	0.00	2.12	0.26	1.13	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	1673	0.99	18.39	0.00	0.00	2.12	0.26	1.22	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	2004	1.09	19.55	0.00	0.00	2.15	0.26	1.31	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248	2336	1.19	20.54	0.00	0.00	2.21	0.26	1.37	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	2668	1.30	21.32	0.00	0.00	2.28	0.26	1.42	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	3000	1.40	21.90	0.00	0.00	2.36	0.26	1.46	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Hemi	hydrate	Anh	udrata	00	Political	7	line	100	000	THE PERSON NAMED IN	NOA!	0	BOTH WALL	-	-

			hydrate 4~0.5H2 O		ydrate SO4		lcium oride		inc conate		ead Ilfide		/lg icate		Mg icate		Fe icate
Temp (°F)	PSI	SI	РТВ	SI	РТВ	SI	РТВ	SI	PTB	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ
70	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.45	0.28	0.00	0.00	0.00	0.00	0.00	0.00
95	346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.59	0.28	0.00	0.00	0.00	0.00	0.00	0.00
121	678	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.89	0.28	0.00	0.00	0.00	0.00	0.00	0.00
146	1009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.28	0.28	0.00	0.00	0.00	0.00	0.00	0.00
172	1341	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.76	0.28	0.00	0.00	0.00	0.00	0.00	0.00
197	1673	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.32	0.28	0.00	0.00	0.00	0.00	0.00	0.00
223	2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.93	0.28	0.00	0.00	0.00	0.00	0.00	0.00
248	2336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.60	0.28	0.00	0.00	0.00	0.00	0.00	0.00
274	2668	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.30	0.28	0.00	0.00	0.00	0.00	0.00	0.00
300	3000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.03	0.28	0.00	0.00	0.00	0.00	0.00	0.00

These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Lead Sulfide

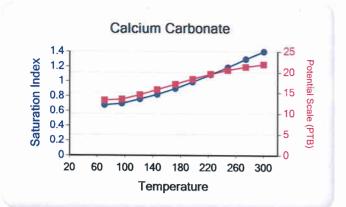
1553 East Highway 40

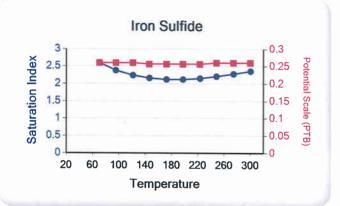
Vernal, UT 84078

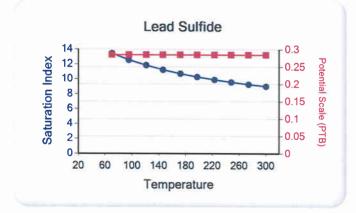
ATTACHMENT F

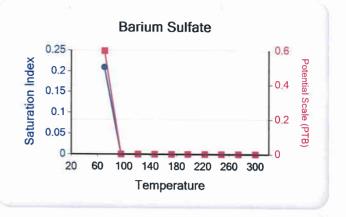
multi-chem

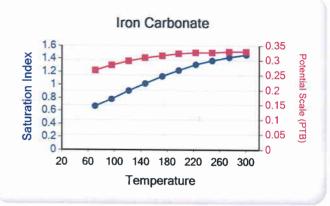
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Iron Sulfide Iron Carbonate Lead Sulfide











1553 East Highway 40 Vernal, UT 84078 ATTACHMENT F



Water Analysis Report

Production Company:

**NEWFIELD PRODUCTION** 

Well Name: Sample Point: FED 1-20-9-16

Sample Date: Sample ID: Water leg 3/15/2012 WA-209564 Sales Pon: D

Sales Rep: Darren Betts
Lab Tech: Gary Peterson

Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specific	×		Analysis @ Prop	perties in Sample Specifics	
Test Date:	3/19/2012	Cations	mg/L	Anions	mg/L
System Temperature 1 (°F):	300.00	Sodium (Na):	6379.81	Chloride (CI):	9000.00
System Pressure 1 (psig):	3000.00	Potassium (K):		Sulfate (SO <sub>4</sub> ):	30.00
System Temperature 2 (°F):	70.00	Magnesium (Mg):		Bicarbonate (HCO <sub>3</sub> ):	1561.60
System Pressure 2 (psig):	14.70	Calcium (Ca):		Carbonate (CO <sub>3</sub> ):	0.00
Calculated Density (g/ml):	1.01	Strontium (Sr):		Acetic Acid (CH3COO)	0.00
pH:	9.30	Barium (Ba):		Propionic Acid (C2H5COO)	0.00
Calculated TDS (mg/L):	17043.55	Iron (Fe):		Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	0.00
CO2 in Gas (%):	0.00	Zinc (Zn):		Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	0.00
Dissolved CO <sub>2</sub> (mg/L)):	0.00	Lead (Pb):		Fluoride (F):	0.00
H <sub>2</sub> S in Gas (%):	0.00	Ammonia NH3:		Bromine (Br):	0.00
H2S in Water (mg/L):	0.50	Manganese (Mn):		Silica (SiO2):	0.00

Notes:

(PTB = Pounds per Thousand Barrels)

			cium conate	Bariun	Sulfate		ron Ilfide		ron oonate		psum 04-2H2O		estite SO4		alite laCl		Zinc ulfide
Temp (°F)	PSI	SI	PTB	SI	РТВ	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	14	1.30	7.71	0.26	0.48	1.98	0.11	1.33	0.14	0.00	0.00	0.00	0.00	0.00	0.00	9.32	0.01
95	346	1.32	7.74	0.02	0.05	1.76	0.11	1.44	0.14	0.00	0.00	0.00	0.00	0.00	0.00	8.80	0.01
121	678	1.36	7.77	0.00	0.00	1.60	0.11	1.55	0.14	0.00	0.00	0.00	0.00	0.00	0.00	8.35	0.01
146	1009	1.41	7.81	0.00	0.00	1.49	0.11	1.65	0.14	0.00	0.00	0.00	0.00	0.00	0.00	7.96	0.01
172	1341	1.47	7.85	0.00	0.00	1.43	0.11	1.73	0.14	0.00	0.00	0.00	0.00	0.00	0.00	7.63	0.01
197	1673	1.53	7.89	0.00	0.00	1.40	0.11	1.80	0.14	0.00	0.00	0.00	0.00	0.00	0.00	7.35	0.01
223	2004	1.59	7.92	0.00	0.00	1.39	0.11	1.85	0.14	0.00	0.00	0.00	0.00	0.00	0.00	7.09	0.01
248	2336	1.66	7.95	0.00	0.00	1.39	0.11	1.88	0.14	0.00	0.00	0.00	0.00	0.00	0.00	6.85	0.01
274	2668	1.72	7.98	0.00	0.00	1.40	0.11	1.89	0.14	0.00	0.00	0.00	0.00	0.00	0.00	6.63	0.01
300	3000	1.77	8.00	0.00	0.00	1.41	0.11	1.87	0.14	0.00	0.00	0.00	0.00	0.00	0.00	6.41	0.01
	i	Hemi	hydrate	Anh	vdrate	Cal	cium	7	inc		ead		Ma	C	Ma		Eo

			nydrate 4~0.5H2 O		ydrate SO4		lcium oride		inc conate	120	ead Ilfide		/Ig icate		Mg icate		Fe icate
Temp (°F)	PSI	SI	PTB	SI	РТВ	SI	PTB	SI	PTB	SI	PTB	SI	РТВ	SI	РТВ	SI	РТВ
70	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.38	0.04	0.00	0.00	0.00	0.00	0.00	0.00
95	346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.53	0.04	0.00	0.00	0.00	0.00	0.00	0.00
121	678	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.01	10.80	0.04	0.00	0.00	0.00	0.00	0.00	0.00
146	1009	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.01	10.17	0.04	0.00	0.00	0.00	0.00	0.00	0.00
172	1341	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.01	9.63	0.04	0.00	0.00	0.00	0.00	0.00	0.00
197	1673	0.00	0.00	0.00	0.00	0.00	0.00	0.91	0.01	9.15	0.04	0.00	0.00	0.00	0.00	0.00	0.00
223	2004	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.01	8.72	0.04	0.00	0.00	0.00	0.00	0.00	0.00
248	2336	0.00	0.00	0.00	0.00	0.00	0.00	1.15	0.01	8.33	0.04	0.00	0.00	0.00	0.00	0.00	0.00
274	2668	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.01	7.97	0.04	0.00	0.00	0.00	0.00	0.00	0.00
300	3000	0.00	0.00	0.00	0.00	0.00	0.00	1.22	0.01	7.64	0.04	0.00	0.00	0.00	0.00	0.00	0.00

These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Lead Sulfide

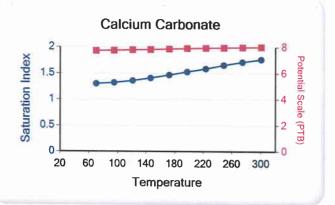
1553 East Highway 40

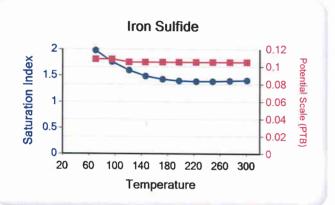
Vernal, UT 84078

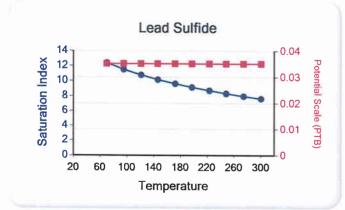
ATTACHMENT

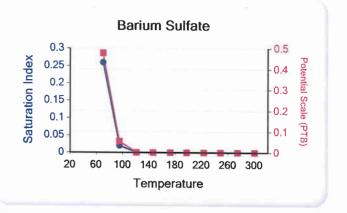
multi-chem

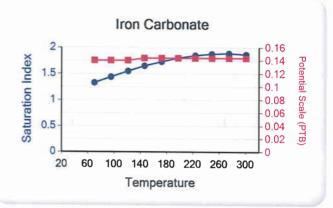
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide

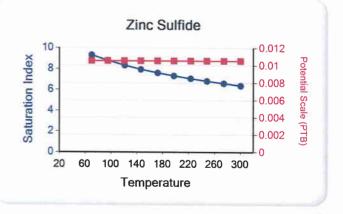


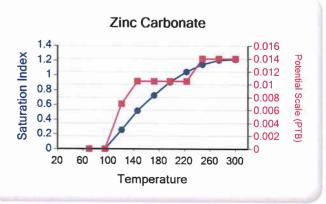












#### Attachment "G"

# Federal #1-20-9-16 Proposed Maximum Injection Pressure

	Interval eet)	Avg. Depth	ISIP	Calculated Frac Gradient	
Top	Bottom	(feet)	(psi)	(psi/ft)	Pmax
5526	5544	5535	2165	0.82	2129
5124	5138	5131	2760	0.97	2727
4780	4795	4788	1800	0.81	1769 ◀
4680	4694	4687	1960	0.85	1930
4160	4167	4164	2025	0.92	1998
				Minimum	1769

Calculation of Maximum Surface Injection Pressure

Pmax = (Frac Grad -(0.433\*1.015)) x Depth of Top Perf where pressure gradient for the fresh water is .433 psi/ft and specific gravity of the injected water is 1.015.

Frac Gradient = (ISIP +(0.433\*Top Perf.))/Top Perf.

**Please note:** These are existing perforations; additional perforations may be added during the actual conversion procedure.



# ATTACHMENT G-1 105/10

#### **DAILY COMPLETION REPORT**

WELL NA	<u> </u>	Fed	eral 1-20-9	-16	Re	port Date:	: 11	-Jul-07			Day:	1
Opera	ation:	Comp	letion					Rig:	Rig	jless		
·		40		W	ELL ST	ATUS						
	8 5/8' Size: _	@	<u>''</u> Wt:	Prod Grd:	Csg:		_ @ :от @: _	6029'	Csg BP/Sand	PBTD: PBTD:	5929	9' WL
				PERFO	DRATIO	N RECOR	Ð					
<u>Zone</u>		<u>Perfs</u>		SPF/#shots			one		<u>Perfs</u>		SPF/	#shots
	_									_		
	_									_		
CP1 sds	-	526-5544'	<del></del> -	4/72		<u></u>				<b>-</b>		
				CHRONOL	OGICAL	OPERAT	LIONS			<u>-</u>		
Date Work i	Perfor	med:	10-Jul-0		OOIOAL	- OF LIVA	10143	SITP.		SICP		0
valves to 450 Perforate sta Titan) w/ 4 s	age #′	I. CP1 sds	@ 5526-44	4' w/ 3 1/8"	Slick au	uns (19 g	ram, .4	9" HE, 120	, 21.92" p	en, Ex	(P-33	@ 60 19-331
Starting fluid Fluid <u>lost/</u> red Ending fluid	overed to be r	d today: ecovered: _	0 143	3	Starting Oil lost/r Cum oil	recovered	 date: today: _ :			-		
IFL:		FFL:	FTP: _	CI	hoke:		Final	Fluid Rate:		Final o	oil cut	<u> </u>
			LATION D						COST			
Base Fluid us Company:	sed: _		Job <sup>-</sup>	Туре:					erford BOP	-		\$450
Procedure or	r Fauir	mont dotail:					_		C NU crew	-		\$300
i iocedule oi	Lquip	mem uetan.					_		SI trucking			\$800
<u> </u>					,,,,				rators LLC	-		6,800
									orilling cost	-	<u> </u>	8,488 \$400
<u> </u>		<del></del>							iate hot oil	-		\$420
									reparation	-		\$300
									C wellhead	-		1,500
		. <u> </u>							Overbood	-		1,200
<u></u>									Overhead	-	*	\$3,000
Max TP:		Max Rate:		Total fluid p	mpd.			NPC -	Supervisor			\$300
Avg TP:		Avg Rate:		Total Prop p						-		
ISIP:		5 min: _		min:	· —	nin:		DAILY CO	OST:		\$34	3,558
Completi	ion Su	pervisor:	Orson I	Barnev			<del>-</del>	TOTAL WE				3 558



# ATTACHMENT G-1 20f 10

Day: \_\_2\_

#### **DAILY COMPLETION REPORT**

Report Date: July 20, 2007

Federal 1-20-9-16

**WELL NAME:** 

Ope	ration	: <u>'</u>	Completion					Rig:	Rig	less	
					WELL S	TATUS					
Surf Csg:	8 5/8	@ _	324'		od Csg:		@	6029'	Csg i	PBTD:	5929' WL
Tbg:	Size:		Wt:	Grd	:	Pkr/E	ОТ @:		BP/Sand		
				PERI	FORATIO	N RECOR	RD				
<u>Zone</u>			<u>Perfs</u>	SPF/#shot			one		<u>Perfs</u>		SPF/#shots
	-				_			-		-	
	<del>-</del> -				<del>-</del>					-	
CP1 sds	-	5526-	5544'	4/72	_					-	
				CHRONO	_ DLOGICA	L OPERA	TIONS			<u> </u>	
Date Worl	k Perfo	rmed:	July 19	9, 2007					:	SICP:	0
down @ 2	rac 17 756 psi age #2	บเด. เ . Trea	n head" frac fl Pumped 780 g ted @ ave pre 2165 psi. Lea	jals 4% Techi ess of 2186 ps	ni-Hib 76` si W/ ave	7W "pre-pa rate of 24.	ad" & fr :7 BPN	esh wtr spa	icer ahead o	f frac	Perfs broke
Starting flu Fluid <u>lost/</u> r Ending flui	ecovered to be	ed toda recove	y: 4' ered: 5	143 16 59	Starting Oil lost Cum oi	ERY (BBL g oil rec to d recovered I recovered	date: today:			•	
IFL:					Choke: _		_ Fina	I Fluid Rate:		Final o	oil cut:
			STIMULATIO						COST	<u>s</u>	
Base Fluid				ob Type:	Sand	frac	-		rvicesCP1	•	\$22,542
Company:		3J Ser							wtr & truck	•	<u>\$700</u>
Procedure		-	_	CP1 sands de	own 5 1/2	2" casing		N	IPC fuel gas		\$110
			chni-Hib 767V		<del></del>		_	Weather	ford service	-	\$1,150
			vater spacer &	Cross-link			_	NPC	supervision		<u>\$75</u>
<u>3200</u>	gals o	f pad					_			_	
2500	gals V	V/ 1-5 <sub>1</sub>	opg of 20/40 s	and			_			•	
5026	gals o	f 5-8 p	pg of 20/40 sa	ınd			_				
500	gals of	15% H	CL acid				_				
Flus	h W/ 50	002 gal	s of slick wate	er			_		*	_	
**Fiu	sh calle	ed @ bl	enderinclude	es 2 bbls pum	p/line vol	ume**			-		
			Rate: 24.8 BP			416 bbls	- -				
		Avg R	tate: <u>24.7 BP</u>	M Total Prop	pmpd:_	40,327#	_				
	: <u>2165</u>		min:	10 min:	_	FG: <u>.83</u>	_	DAILY C			\$24,577
Comple	etion S	upervi	isor: Ga	ry Dietz				<b>TOTAL W</b>	<b>ELL COST:</b>		\$368,135



# ATTACHMENT G-1

304/0

#### **DAILY COMPLETION REPORT**

Report Date: July 20, 2007

Federal 1-20-9-16

**WELL NAME:** 

WELL NAM	<u>E:</u> <u>Federa</u>	I 1-20-9-16	Re	port Date:	July	20, 2007		Day: 2
Operation	on: <u>Completi</u>	on				Rig:	Rigless	
			WELL ST	TATUS	<del></del>			
Surf Csg: 85	<u>/8'</u> @ <u>324'</u>	P	rod Csg:	5 1/2"	@	6029'	Csg PBTD	: 5929' WL
Tbg: Siz	e: W	t:Gr	d:	Pkr/E	от @:		BP/Sand PBTD	
		PEF	RFORATIO	N RECORI	D			
<u>Zone</u>	<u>Perfs</u>	SPF/#sh		Zo	_		<u>Perfs</u>	SPF/#shots
						<u></u>		
						-		
LODC sds	5124-5138'	4/56						
CP1 sds	5526-5544'	4/72						
Data Mada Ba			OLOGICA	L OPERAT	<u>IONS</u>			
Date Work Per	formed: <u>Ju</u>	ıly 19, 2007				SITP:	SICP	1399
Day 2(b):	re WIT crane & lu	brigator Bun M	loothorford	E 1/0	!4-	£1 41	1.5	
perf gun. Set	s WLT, crane & lu plug @ 5230'. Pe	erf stage #2 (I C	Peatnerrord	ี่ 5 1/2" com <b>ด 51ว</b> ⊿₋ <b>วถ</b> '	posite	flow-throug	th frac plug & 14'	X 3/18" slic
stage #2 W/ 60	0,273# 20/40 sand	in 510 bbls Liah	tning frac	<b>(4)</b> 3124-36 17 fluid Pu	ww.4	<b>JOPF</b> . All 780 dale 1º	Techni-Hib 76	:rvices & tra
& rresn wtr spa	cer anead of frac.	Perfs broke dov	vn @ 3621	l psi (on thir	rd atter	nnt of nres	surina anainet no	rfe) Treate
@ ave press of	f 2674 psi W/ ave	rate of 24.8 BPN	/I. Spotted	l 500 gals 1	5% HO	CL acid in f	lush to cover star	ne#3 ISIP-
2760 psi. Leave	e pressure on well.	Est 1069 BWT	R.	,	- , , , , ,	- uoiu iii i	dell' le devel ela	30 #0. 10H =
See day 2(c)								
Starting fluid to	ad to be recovered:			ERY (BBLS				
Fluid lost/recov		510	_	recovered t	_	<u> </u>		
Ending fluid to	be recovered:	1069		recovered:	<b>,</b>			
IFL:	FFL:	FTP:	_Choke: _		Final	Fluid Rate:	Final	oil cut:
	STIMULA	TION DETAIL					COSTS	
	: Lightning 17	_ Job Type:	Sand	frac	_	BJ Servi	cesLODC	\$13,010
Company:	BJ Services	_			_	CD	wtr & truck	\$1,000
Procedure or Ed	•	LODC sands	down 5 1/	2" casing	_		PC fuel gas	\$150
	of 4% Techni-Hib 7				_		rd frac plug	\$2,400
	of fresh water space	cer & Cross-link			<u>F</u>		LLC-LODC	\$4,165
4600 gals		///			-	NPC NPC	supervision	\$75
	W/ 1-5 ppg of 20/				-	<del></del>		
	of 5-8 ppg of 20/4				_			
	W/ 8 ppg of 20/40	J sand	<del></del> .		-			
	of 15% HCL acid				_			
	4582 gals of slick				_			
	alled @ blenderind 20 Max Rate: 24.9			<u>me**</u> 510 bbls	-			<del></del>
	4 Avg Rate: 24.8		· · -	60,273#	_			
ISIP: 276		10 min:		FG: <u>.97</u>	_	DAILY C	OST:	\$20,800
Completion	Supervisor:	Gary Dietz				TOTAL WE	LL COST:	\$388,935



# ATTACHMENT G-1 40f/0

Day: 2

#### **DAILY COMPLETION REPORT**

Report Date: July 20, 2007

WELL NAME: Federal 1-20-9-16

	Rig:	Rigi	less	
WELL STATUS				
	6029'			5929' WL
Tbg: Size: Wt: Grd: Pkr/EOT @:		BP/Sand F	PBTD:	5230',4900'
PERFORATION RECORD				
Zone Perfs SPF/#shots Zone		<u>Perfs</u>		SPF/#shots
C sds 4780-4795' 4/60				
LODC sds 5124-5138' 4/56				
CP1 sds 5526-5544' 4/72				
CHRONOLOGICAL OPERATIONS				
Date Work Performed: July 19, 2007	SITP:	9	SICP:	2003
Day 2(c):	-		,	
RU Perforators WLT & run Weatherford 5 1/2" composite flow-through frac plug	& 15' X	3/18" slick p	oerf gu	ın. Set plug
@ 4900°. Perf stage #3 (C sds) @ 4780-95' W/ 4 JSPF. All 1 run. RU BJ Serv	ices & fra	c stage #3	W/ 60	060# 20/40
sand in 510 bbls Lightning frac 17 fluid. Pumped 780 gals 4% Techni-Hib 767W frac. Perfs broke down @ 4170 psi (on sixth attempt of pressuring against perfs)	"pre-pad	" & fresh wi	tr spac	cer ahead o
ave rate of 24.8 BPM. Spotted 500 gals 15% HCL acid in flush to cover stage #	. reated	u @ ave pre -18∩∩ nsi T	2SS OT	1833 psi vv
well. Est 1579 BWTR.	IOII -	- 1000 psi. L	.cave	pressure or
See day 2(d)				
FLUID RECOVERY (BBLS)			-	
Starting fluid load to be recovered: 1069 Starting oil rec to date: Oil lost/recovered today:				
Fluid <u>lost/recovered today:</u> Ending fluid to be recovered:  510  Oil lost/recovered today:  Cum oil recovered:				
	id Rate:		Final c	oil cut:
STIMULATION DETAIL		COSTS		
Base Fluid used: Lightning 17 Job Type: Sand frac	BJ S	<u>COSTS</u> ServicesC	2	\$13,010
Company: BJ Services		wtr & truck	•	\$1,000
Procedure or Equipment detail: C sands down 5 1/2" casing	NF	PC fuel gas	•	\$150
780 gals of 4% Techni-Hib 767W "pre-pad"	eatherfor	d frac plug	•	\$2,400
509 gals of fresh water spacer & Cross-link		ors LLCC		
				\$3,830
4600 gals of pad	NPC s	supervision	•	
4600 gals of pad 3000 gals W/ 1-5 ppg of 20/40 sand	NPC s			\$3,830 \$75
	NPC s			
3000 gals W/ 1-5 ppg of 20/40 sand	NPC s			
3000 gals W/ 1-5 ppg of 20/40 sand 6000 gals of 5-8 ppg of 20/40 sand	NPC s			
3000 gals W/ 1-5 ppg of 20/40 sand 6000 gals of 5-8 ppg of 20/40 sand 1756 gals W/ 8 ppg of 20/40 sand	NPC s		- - - -	
3000 gals W/ 1-5 ppg of 20/40 sand 6000 gals of 5-8 ppg of 20/40 sand 1756 gals W/ 8 ppg of 20/40 sand 500 gals of 15% HCL acid	NPC s			· · · · · · · · · · · · · · · · · · ·
3000 gals W/ 1-5 ppg of 20/40 sand 6000 gals of 5-8 ppg of 20/40 sand 1756 gals W/ 8 ppg of 20/40 sand 500 gals of 15% HCL acid Flush W/ 4288 gals of slick water	NPC s		- - - - -	· · · · · · · · · · · · · · · · · · ·
3000 gals W/ 1-5 ppg of 20/40 sand 6000 gals of 5-8 ppg of 20/40 sand 1756 gals W/ 8 ppg of 20/40 sand 500 gals of 15% HCL acid Flush W/ 4288 gals of slick water **Flush called @ blenderincludes 2 bbls pump/line volume**	NPC s		- - - - - -	· · · · · · · · · · · · · · · · · · ·
3000 gals W/ 1-5 ppg of 20/40 sand 6000 gals of 5-8 ppg of 20/40 sand 1756 gals W/ 8 ppg of 20/40 sand 500 gals of 15% HCL acid Flush W/ 4288 gals of slick water  **Flush called @ blenderincludes 2 bbls pump/line volume** Max TP: 2285 Max Rate: 24.9 BPM Total fluid pmpd: 510 bbls Avg TP: 1833 Avg Rate: 24.8 BPM Total Prop pmpd: 60,060#	NPC s	supervision		· · · · · · · · · · · · · · · · · · ·



# ATTACHMENT G-1 5 of 10

#### **DAILY COMPLETION REPORT**

Federal 1-20-9-16

WELL NAME:

WELL N	<u>AME:</u>	<u>Federal</u>	1-20-9-16	Re	port Date:	July	20, 2007			Day:	2
Oper	ation	Completic	on_	<del></del>			Rig:	Rig	less		
				WELL ST	TATUS						······································
Surf Csg:	8 5/8		_	Prod Csg: _		@	6029'	Csg	PBTD:	5929	' WL
Tbg:	Size:	Wt		Grd:	Pkr/E	OT @:		BP/Sand			4900'
			P	ERFORATIO	N PECOP	n		_BP/Sand	PBTD:	474	40'
<u>Zone</u>		<u>Perfs</u>	SPF/#s	-		<u>ne</u>		<u>Perfs</u>		SPF/#	<u>shots</u>
D2 sds	•	4680-4694'	4/56	<del></del>					-		
C sds		4780-4795'	4/60				<del></del>		-		
LODC sds	•	5124-5138'	4/56						<u>-</u>		
CP1 sds		5526-5544'	<u>4/72</u>					-	-		
D ( ) W   I				NOLOGICA	L OPERAT	IONS		, <u>, , , , , , , , , , , , , , , , , , </u>			
Date Work	Perfo	rmed: <u>Jul</u>	y 19, 2007				SITP:		SICP:	14	20
Frac stage #4 of frac. Treat	covered W/ 79,9 ed @ a	dumpbailer W/ 8 gals acid & strung out sa 938# 20/40 sand in 62 we press of 1860 psi ell. Est 2052 BWTR.	nd. Flowing fairl 23 bbls Liahtnina	y clean @ end. frac 17 fluid P	Casing press umped 780 ga	sure @ ils 4% T	150 psi. RU B echni-Hib 767\	J & breakdow	n D2 pe	rfs @ 1	889 psi
Starting flui	d load	to be recovered:	<u>FL</u> 1579	UID RECOV	ERY (BBL						
Fluid lost/re			473	_	recovered t				-		
Ending fluid	l to be	recovered:	2052		recovered:	•			-		
IFL:		FFL:	_ FTP:	Choke:		Final	Fluid Rate:		Final o	oil cut:	
		STIMULAT	ION DETAIL					COST	S		
Base Fluid (	used:	Lightning 17	_ Job Type: _	Sand	frac	, .	BJ Se	ervicesD2		\$16	3,739
Company:		BJ Services	_			,	CD	wtr & truck		\$^	1,400
Procedure of	r Equ	ipment detail:	D2 sands	down 5 1/2	" casing		NF	PC fuel gas	_	_	\$225
<u>780 g</u>	als of	4% Techni-Hib 7	67W "pre-pad	"			Weatherfo	d frac plug		\$2	2,400
<u>341 g</u>	als of	fresh water space	er & Cross-lin	k			Perforato	rs LLCD2	_	\$4	4,390
6000	gals o	f pad					NPC :	supervision	_		\$75
4000	gals V	V/ 1-5 ppg of 20/4	l0 sand						_		
8000	gals o	f 5-8 ppg of 20/40	) sand	_					_		
2397	gals V	V/ 8 ppg of 20/40	sand						=		
<u>500 g</u>	als of	15% HCL acid						,,,,,	-		
Flush	W/ 4	120 gals of slick v	vater		***				-		
**Flus	h call	ed @ blenderinc	udes 2 bbls p	ump/line volu	ıme**	. ,	<u>, ,</u>		-		
		Max Rate: 24.9			623 bbls				<u>-</u>		
		Avg Rate: <u>24.8</u>		rop pmpd: _	79,938#				-		
	1960	5 min:			FG: <u>.85</u>		DAILY C	-			5,229
Comple	tion S	upervisor:	Gary Dietz				TOTAL WE	LL COST:		\$434	4,629



## ATTACHMENT G-1

6 of 10

Day: 2

#### **DAILY COMPLETION REPORT** Federal 1-20-9-16

Report Date: July 20, 2007

WELL NAME:

Ope	ration	: .	Completion	1				Rig:	Rig	less	
· · · · · · · · · · · · · · · · · · ·					WELL S	TATUS					
Surf Csg:	8 5/8	' @	324'		od Csg:	5 1/2"	@	6029'	Cea	PRTN.	5929' WL
Tbg:	Size:		Wt:	Grd	_		ОТ @:				5230',4900'
			<del></del>			· · ·					4740',4250'
				PER	FORATIO	ON RECOR	<u>D</u>				,
Zone 2			<u>Perfs</u>	SPF/#shot	<u>ts</u>	<u>Zo</u>	<u>ne</u>		<u>Perfs</u>		SPF/#shots
GB6 sds	_	4160-		4/28	_			<u> </u>		_	
D2 sds			4694'	4/56	_					-	
C sds LODC sds	-		4795'	4/60				. <u> </u>		-	
CP1 sds	-	5124- 5526-		4/56				•		_	
OF 1 Sus		3326-	3344	4/72	_	•				_	
	-	-		CHRONO	)LOGICA	AL OPERAT	IONS				
<b>Date Work</b>	Perf	ormed:	: July	19, 2007				SITP:		SICP:	1740
Day 2(e):			<del></del>								
@ 4250.	<b>Perris</b> fs to 4	t <b>age</b> #	<b>F5 (GB6 sa:</b> siholding s	erford 5 1/2" co s) <b>@ 4160-67' \</b> olid.	N/ 4 JSF	PF. All 1 ru	n. Rl	J BJ Servic	es to frac s	tage #	5. Pressure
Shut well in	with	pressu	re overnight	:. Est 2052 BW	TR						
		p. 000u	o ovoringrii	Lot 2002 DVV	TTX.						
				ELLUE	DECO	VEDY (DDI	<u> </u>	· · · · · · · · · · · · · · · · · · ·			
Starting flui	id load	l to be	recovered:	2052		VERY (BBL					
Fluid lost/re			-	2032		g oil rec to d t/recovered t				-	
Ending fluid						il recovered:				-	
IFL:		FFL:		FTP:		ii iecoveieu.		Fluid Rate:		Einal e	oil cut:
		· -	CTIMILI AT							-	
Base Fluid	ood.			ON DETAIL					COST		
	usea:			Job Type:					rd frac plug	-	\$2,400
Company:	_							Perforators	s LLCGB6	_	\$2,870
Procedure of	or Equ	ipment	t detail:					NPC	supervision		\$75
										-	
						-	•			-	
							•			•	
										-	<del></del>
				<u>-</u> -			•			•	
-							•			•	-
-					·						
										•	<u> </u>
				<u> </u>			•			•	
Max TP:		May F	Rate:	Total fluid	nmnd.		•	<del></del>		•	
Avg TP:		•	Rate:	Total IIdid						•	
ISIP:			min:	Total Prop 10 min:	_	FG:	•	DAILY	OCT.	•	<b>OF 045</b>
		•				FG		DAILY C			\$5,345
Comple	uon S	uperv	or:	Gary Dietz	_			TOTAL W	ELL COST:		\$439,974



# ATTACHMENT G-1

7 of 10

#### **DAILY COMPLETION REPORT**

Report Date: \_July 21, 2007

WELL NAME: Federal 1-20-9-16

Ope	ration:	Completion	on				Rig:	N	C #1	
				WELL S	TATUS					
Surf Csg:	`	<u>324'</u>	<u>-</u> .	Prod Csg:	5 1/2"	@	6029'	Csg	PBTD:	5929' WL
Tbg:	Size:	2 7/8" Wt:	6.5#	_Grd:J-5	5 Pkr <u>/E</u>	<u>от</u> @:	4313'			5230',4900
			1	PERFORATION	N PECOP	ח	_	BP/Sand	PBTD:	4740'
<u>Zone</u>		<u>Perfs</u>		#shots		one		<u>Perfs</u>		SPF/#shots
GB6 sds	41	60-4167'	4/28			<u> </u>		1 0113		SFFI#SHULS
D2 sds		80-4694'	4/56						_	
C sds LODC sds		80-4795'	<u>4/60</u>						_	
CP1 sds	_	<u>24-5138'</u> 26-5544'	<u>4/56</u> 4/72	<del></del>					_	
<del></del>		20-3344							_	
Date Work	Dorform	od: lub		ONOLOGICA	L OPERAT	<u>rions</u>				
		BJ Services & b	y 20, 2007	_			SITP:		SICP:	
III (@ 4101.	i og alspla	BOP. Talley, F aced 10 BW on oss. Hang back	TIH. KU pov	ver swivel. C/C	) sd to comn	osite nli	ua @ 4250'	new 2 7/8 8i Drill out plu	d 6.5# g in 25	J-55 tbg. Tág minutes. Cir
	· .			LUID RECOV	/EDV (DDI	<u>C)</u>				
Starting flu	id load to	be recovered:	2052		g oil rec to d					
Fluid lost/re			172		recovered t				_	
Ending fluid			2224		l recovered:				_	
IFL:	FF	L:	. FTP:	Choke: _		Final	Fluid Rate:		_ _Final o	oil cut:
		STIMULAT	ION DETAI	<u>L</u>			<del>.</del>	COST	S	
Base Fluid	used:L	ightning 17	Job Type:	Sand	frac	_		NC #1 rig		\$5,452
Company:	BJ :	<u>Services</u>	<u>-</u>				Weath	erford BOF	_	\$250
Procedure of	or Equipm	ent detail:				_	BJ Serv	vices - GB6	- ;	\$20,906
							CD	wtr & truck	_ ·	\$520
780 g	als of 4%	Techni-Hib 76	67W "pre-pa	ad"		_	NI	PC fuel gas	- ;	\$100
<u>682 g</u>	als of fres	sh water space	er & Cross-li	nk		_		- FB fittings		\$300
2400	gals of pa	ad				_		ew J55 tbg	-	\$32,771
1875	gals W/ 1	-5 ppg of 20/4	0 sand				Na	bors swive	<b>-</b> 	\$750
3505	gals of 5-	8 ppg of 20/40	) sand				CD	wtr transfer		\$300
Flush	W/ 4074	gals of slick w	ater				Unichem	chemicals	<del>-</del> .	\$300
						_		rd "chomp" bit	-	\$1,450
						_	NPC sfc	equipment	- · t	\$130,000
Max TP:	1867 Ma	x Rate: <u>25 E</u>	BPM_Total	fluid pmpd:	317 bbls		Mecham lal	<del></del>		\$19,500
Avg TP:	1594 Av	g Rate: 24.9	BPM Total	Prop pmpd:	28,569#	_		supervision		\$300
	1545	5 min:	10 min:		FG: <u>.81</u>		DAILY C	OST:		\$212,899
Comple	tion Supe	ervisor:	<b>Gary Dietz</b>				TOTAL WE	LL COST:		\$652,873



# ATTACHMEN. G-1

8 of 10

#### DAILY COMPLETION REPORT

	Wille.		i cuei	ai 1-20	-3-10		Re	hour na	ite:	uly	<b>24</b> , <b>2</b> 007	_			Day: 4
Ope	eration:	· <u> </u>	Comple	tion							Rig:		NC #	<del>¥</del> 1	
						W	ELL ST	ATUS							-
Surf Csg:	8 5/8'	@ _	324'				Csg:	5 1/2"	' @	<u>@</u>	6029'	(	Csg PE	BTD:	5957.82'
Tbg:	Size:	2 7/3	8"	Wt:	3.5#	_Grd: .	J-55	Pk	cr <u>/EOT</u>	<b>@</b> : _	5819'	•	_	and	
						PERFC	RATIO	N REC	OBD						
<b>Zone</b>		<u> </u>	<u>Perfs</u>		SPF	/#shots	<del>ZICATIO</del>	IVICO	Zone			Perfs			SPF/#shots
GB6 sds		4160-4			4/28	3									<u>01 1 1#31106</u>
D2 sds	_	4680-4			4/56									•	
C sds LODC sds	_	4780-4 5124-5			4/60										
CP1 sds	_	5526-5		<del></del>	4/56					_					<del> </del>
							OCICAL		ATION						
Date Worl	k Perfo	rmed:	_	luly 23,		KUNUL	OGICAL	<u> OPER</u>	KATIO	<u> </u>	CITO.		01	ΔD.	
						 • Dia: C::	I/I II - T	. Ell 6	40701	010	SITP:			CP:	
Fill @ 5145	7, C/Out	To Pla	@ 5230	بر 4740 . Drill Ub.	Pla. S	o Pig, Sw Swyl I/Hle	/VI/HIEI To Fill (	o FIII @ ର 5750'	94878', Drill &	C/O	ut To Pig @	4900', [	Drill Up זאייכאיז	Plg,	Swvl I/Hle T rc Well Clea
I HI, KIU S	SWVI, PC	JOH VV/	'-5 Jts 11	od FOR	@ 581	9'. R/U 9	Swab. Ma	ade 15 :	Swah R	2nns	Recyred 1	77 Rhie	\A/fr Li	ita Tr	ca Cand Lit
Trce Oil, FF Recvery Fo	-L@ 16	00°, SVV	/I, 6:30PI	M C/SDF	Ň, Lo	st 123 Bl	bls Wtr C	n Drill C	Out To F	PBTI	D. Recvred	177 Bbls	Wtr S	wahh	ing, Total W
Starting fla	heol bi:	to be r	acovoro	d. 2		-	RECOVE							_	
Starting flu Fluid lost <u>/r</u>				d: <u>2</u> 54	224		Starting			_					
Ending flui				2170	<u>n</u>	_	Oil lost/r Cum oil			ay: _	<del></del>				
	urf	FFL:	1600'	FTP			noke:	recover		nal I	Fluid Rate:		 Fi	nal o	oil cut:
	TURI	NG DE	TΔII			PO	D DETA								
		TO DE	17412	_		<u>IXO</u>	<u> </u>	<u> </u>				NC #	OSTS 1 rig		\$5,060
										_	NPC S	Supervi	<u>_</u>	-	\$3,000
												erford E		-	\$225
										_		O Truc		-	\$630
			_	<del></del> -				<del></del>		-	Monks			-	\$1,800
				<del></del>						_	NDSI W			-	\$3,000
		·							<del></del>		NPC Loc			-	\$300 \$300
				<del></del>					<del></del>	_		np-T/A-		-	\$2,055
·											Mtn Wes	•		-	\$600
·						·				_		s Pwr S		-	·
										_	INADUI	3 FWI 3	10.00	-	\$850
										_				_	
			^						<del></del>	_				-	
Comple	etion S	upervi	sor:	Duane	Frest	ton.				_	DAILY C	OST:		-	\$14,820



## ATTACHMENT G-1

NC #1

9 of 10

Day: \_\_5

#### **DAILY COMPLETION REPORT**

Report Date: July 25, 2007

Rig:

Federal 1-20-9-16

Completion

WELL NAME:

Operation:

		***	STATUS		
Surf Csg:		Prod Csg	:5 1/2" @	6029'	PBTD: 5957.82'
Tbg:	Size: 2 7/8" \	Vt: <u>6.5#</u> Grd: <u> </u>	I-55 Pkr <u>/EOT</u> @:	5614.97'	Sand 5957.82'
		DEDEODA:	TION DECORD		
Zone	<u>Perfs</u>	SPF/#shots	ION RECORD	D. 6	
GB6 sds		4/28	<u>Zone</u>	<u>Perfs</u>	SPF/#shots
D2 sds	4680-4694'	4/56		<del></del>	
C sds	4780-4795'	4/60			
LODC so		4/56	<del></del>		
CP1 sds		4/72			
		CHRONOLOGI	CAL OPERATIONS		
Date Wo	rk Performed: J	uly 24, 2007	DAL OF LIVATIONS	OITD.	OLOD
		o Fill @ 5952', R/U R/pmp		SITP:	SICP:
ropinp, Fi	sn ing vv/-60 bbis vvtr. i	og Production Detail Shown P/U Stroke & RIH W/- CDI- 6:30PM C/SDFN. Lost 87 BI	2 1/2x1 1/2x16x20' RI	HAC 6-1 1/2v25' W/ Bar	rs, 20-3/4x25' Guided
	•		:	!	1
			OVERY (BBLS)		
_	luid load to be recovered		ing oil rec to date:		_
	<u>/</u> recovered today:		st/recovered today:		_
IFL:	uid to be recovered:		oil recovered:		_
IFL:	FFL:	FTP: Choke	Final	Fluid Rate:	_Final oil cut:
	TUBING DETAIL	ROD DE	TAIL	COST	S
KB <u>= 1</u> ;	2.0			NC #1 rig	<del></del>
179 <u>Jts</u>	Tbg = 5506.29'			NPC Supervision	
T/A = 2	.80 @ 5518.29 KB		<del></del>	Weatherford BOP	
1 Jt T	bg = 30.52			NPC Trucking	
	.10 @ 5551.61' KB			141 O Tracking	<u> </u>
2 Jts	Tbg = 61.81'		<u>.</u>		
	15 @ 5614.97 KB				
<u></u>					
					_
		-			
Comp	letion Supervisor:	Duane Freston.		DAILY COST:	\$6,140
				<b>TOTAL WELL COST:</b>	\$673,833



# ATTACHMENT G-1 10 of 10

#### **DAILY COMPLETION REPORT**

YVELL NAIVIE: Federal 1-20-9-16				Re <sub>l</sub>	port Date: <u>Ju</u> l	_	Day: 6	
Ope	ration:	Completion				Rig:	NC#	
		, <u> </u>		WELL ST	ATUS			
Surf Csg:	<u>8 5/8'</u> @	324'		Prod Csg:	5 1/2" @	6029'	Csg PB	TD: 5957.82'
Tbg:	Size:2 7/	<u>/8"</u> Wt: _	6.5#	_Grd: <u>J-55</u>	Pkr <u>/EOT</u> @	5614.97'		and 5957.82'
				PERFORATIO	N RECORD			
<b>Zone</b>	,	Perfs		#shots	Zone		<u>Perfs</u>	SPF/#shots
GB6 sds	4160-		4/28					<u> </u>
D2 sds	4680-		4/56					
C sds LODC sds	4780-4		4/60			<del>-</del>		
CP1 sds	5124- 5526-		4/56 4/72					
				ONOL OCICAL	OPERATIONS			
Date Work	Performed:	.lulv	<u>כחת</u> 25, 2007	ONOLOGICAL	OPERATIONS	_	010	ND.
				- MYOEL COME I D		SITP:		
Rig Pump, F	Fill Tbg W/-1 B	bl Wtr, Stroke	Unit & Tbo	74825' Guided R 1 To 800 Psi. Go	ods, 3/4X8'-6'-4'- od Test. R/D Eq	2' Ponys, 1 1 LR/D Rig PC	/2X26' Polish Ro >P @ 10:30AM	od, R/U Unit, R/
(Final Repo	ort)		`	,		,, 100 111g. 1 C	) @ 10.50AW,	120 GL, 5 GFN
		1						
	id load to be r ecovered toda		2257 1	_	oil rec to date: ecovered today:			
	d to be recove	ered: 2	258		recovered:			
IFL:	FFL: _	F	TP:	Choke:	Fina	I Fluid Rate:	Fin	al oil cut:
	<b>TUBING DE</b>	TAIL		ROD DETA	IL	<del></del>	COSTS	
KB <u>= 12.</u>	······································		1	1/2X26' Polisi	h Rod		NC #1 rig	\$2,493
179 <u>Jts T</u>	bg = 5506.29	· · · · · · · · · · · · · · · · · · ·	<u>3/4X</u>	2'-4'-6'-8' Ponys	<u> </u>	NPC	Supervision	\$300
T/A = 2.8	0 @ 5518.29	KB	100-3	3/4X25' Guided	Rods		ZHO	\$1,030
1 Jt Tb	g = 30.52		95-3/	4X25' Slick Ro	ds	NPC Frac T	Tnks 7x8 Dys	\$2,240
S/N <u>= 1.1</u>	0 @ 5551.61	KB	20-3/	4X25' Guided F	Rods	NPC Swab	Tnk 1x4 Dys	\$160
2 Jts T	bg = 61.81'		<u>6-1 1</u>	/2X25' Wt Bars	<b>.</b>	NPC	Frac Head	\$500
N/C <u>= .45</u>	@ 5614.97 k	(B	CDI-2	2 1/2X1 1/2X16	X20'	B/Grade	Rod String	\$10,004
			RHA	C		CD W	Vtr Trucking	\$300
				*	<del></del>			<del> </del>
								·
Comple	tion Supervi	sor: Dua	ne Fresto	on.		DAILY C	OST:	\$17,027
						TOTAL WI	ELL COST:	\$690,860

#### ATTACHMENT H

### WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1.		Set CIBP @ 4110'
2.	Plug #1	Set 100' plug on top of CIBP using 12 sx Class "G" cement
3.	Plug #2	168' balance plug using 19 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4.	Plug #3	120' balance plug using 14sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5.	Plug #4	Pump 43 sx Class "G" cement down 5 ½" casing to 374'

The approximate cost to plug and abandon this well is \$42,000.

12.2925

#### FEDERAL 1-20-9-16

Spud Date: 05/16/07 Put on Production: 07/25/07

GL: 6038' KB: 6050'

Proposed P & A Wellbore Diagram

Cement Top @ 60'

Casing Shoe @ 324'

Initial Production: BOPD, MCFD, BWPD

#### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24#

LENGTH: 7 jts. (312.36')
DEPTH LANDED: 324.21' KB

HOLE SIZE:12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt, est 7 bbls cmt to surf.

#### Pump 43 sx Class "G" Cement down 5-1/2" casing to 374'

#### PRODUCTION CASING

CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15.5#

LENGTH: 137 jts. (6015.83') DEPTH LANDED: 6029.08' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 325 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.

CEMENT TOP: 60'

120' balance plug using 14 sx Class "G" cement 60' above Uinta/Green River and extending 60' below (1493'-1613')

168' balance plug using 19 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale (2808'-2976')

#### 100' (12 sx) Class G Cement plug on top of CIBP

CIBP @ 4110' 4160-4167'

4680-4694

4780-4795'

5124-5138'

5526-5544

4 1 To 1

PBTD @ 5958'

SHOE @ 6029'

TD @ 6050

#### NEWFIELD

#### FEDERAL 1-20-9-16

617'FNL & 652' FEL

NE/NE Section 20-T9S-R16E

Duchesne Co, Utah

API #43-013-33066; Lease # UTU-52018

# BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. UIC-392

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 12, 13, 15, 17, 19, 20, 21, 22, 23, 24, AND 25, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

### THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 17<sup>th</sup> Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

#### Greater Monument Butte Unit:

- Monument Federal 22-12J well located in SE/4 NW/4, Section 12, Township 9 South, Range 16 East API 43-013-15796
- Federal 5-13-9-16 well located in SW/4 NW/4, Section 13, Township 9 South, Range 16 East API 43-013-32658
- Federal 13-15-9-16 well located in SW/4 SW/4, Section 15, Township 9 South, Range 16 East API 43-013-33136
- Federal 7-17-9-16 well located in SW/4 NE/4, Section 17, Township 9 South, Range 16 East API 43-013-33030
- Federal 1-19-9-16 well located in NE/4 NE/4, Section 19, Township 9 South, Range 16 East API 43-013-33062
- Federal 5-19-9-16 well located in SW/4 NW/4, Section 19, Township 9 South, Range 16 East API 43-013-33174
- Federal 1-20-9-16 well located in NE/4 NE/4, Section 20, Township 9 South, Range 16 East API 43-013-33066
- Federal 3-20-9-16 well located in NE/4 NW/4, Section 20, Township 9 South, Range 16 East API 43-013-33067
- Federal 5-20-9-16 well located in SW/4 NW/4, Section 20, Township 9 South, Range 16 East API 43-013-33104
- Federal 9-20-9-16 well located in NE/4 SE/4, Section 20, Township 9 South, Range 16 East API 43-013-33068
- Federal 9-21-9-16 well located in NE/4 SE/4, Section 21, Township 9 South, Range 16 East API 43-013-33145
- Monument Federal 31-21-9-16Y well located in NW/4 NE/4, Section 21, Township 9 South, Range 16 East API 43-013-31726
- Federal 1-22-9-16 well located in NE/4 NE/4, Section 22, Township 9 South, Range 16 East API 43-013-32612
- Federal 7-22-9-16 well located in SW/4 NE/4, Section 22, Township 9 South, Range 16 East API 43-013-33027
- Federal 3-23-9-16 well located in NE/4 NW/4, Section 23, Township 9 South, Range 16 East API 43-013-33176

Federal 11-23-9-16 well located in NE/4 SW/4, Section 23, Township 9 South, Range 16 East API 43-013-33178

Federal 15-23-9-16 well located in SW/4 SE/4, Section 23, Township 9 South, Range 16 East API 43-013-33182

Federal 3-24-9-16 well located in NE/4 NW/4, Section 24, Township 9 South, Range 16 East API 43-013-33084

Federal 15-24-9-16 well located in SW/4 SE/4, Section 24, Township 9 South, Range 16 East API 43-013-33344

Federal 21-25Y well located in NE/4 NW/4, Section 25, Township 9 South, Range 16 East API 43-013-31394

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 22<sup>nd</sup> day of May, 2012.

STATE OF UTAH

DIVISION OF OIL, GAS & MINING

Brad Hill

Permitting Manager

#### **Newfield Production Company**

MONUMENT FEDERAL 22-12J, FEDERAL 5-13-9-16, FEDERAL 13-15-9-16, FEDERAL 7-17-9-16, FEDERAL 1-19-9-16, FEDERAL 5-19-9-16, FEDERAL 1-20-9-16, FEDERAL 3-20-9-16, FEDERAL 9-20-9-16, FEDERAL 9-21-9-16, MONUMENT FEDERAL 31-21-9-16Y, FEDERAL 1-22-9-16, FEDERAL 7-22-9-16, FEDERAL 3-23-9-16, FEDERAL 11-23-9-16, FEDERAL 23-23-9-16, FEDERAL 3-24-9-16, FEDERAL 21-25Y

#### Cause No. UIC-392

Publication Notices were sent to the following:

Newfield Production Company 1001 17th Street, Suite 2000 Denver, CO 80202

Uintah Basin Standard 268 S 200 E Roosevelt, UT 84066 via e-mail ubs@ubstandard.com

Salt Lake Tribune
P O Box 45838
Salt Lake City, UT 84145
via e-mail naclegal@mediaoneutah.com

Vernal Office Bureau of Land Management 170 S 500 E Vernal, UT 84078 SITLA 675 E 500 S Ste 500 Salt Lake City, UT 84102-2818

Duchesne County Planning P O Box 317 Duchesne, UT 84021-0317

Bruce Suchomel
US EPA Region 8
MS 8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129

Newfield Production Company Rt 3 Box 3630 Myton, UT 84052

Jan Sweet



## State of Utah

#### DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

May 22, 2012

Via e-mail legals@ubstandard.com

Uintah Basin Standard 268 South 200 East Roosevelt, UT 84066

Subject: Notice of Agency Action - Newfield Production Company Cause No. UIC-392

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please <u>notify me via e-mail of the date it will be published</u>. My e-mail address is: <u>jsweet@utah.gov</u>.

Please send proof of publication and billing to:

Division of Oil, Gas and Mining PO Box 145801 Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet

**Executive Secretary** 

Jean Sweet

**Enclosure** 



## Jean Sweet - Re: Notice of Agency Action - Newfield Production Company Cause No. UIC-392

From: Cindy Kleinfelter <classifieds@ubstandard.com>

To: Jean Sweet <jsweet@utah.gov>

**Date:** 5/23/2012 3:07 PM

Subject: Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-392

### On 5/22/2012 2:09 PM, Jean Sweet wrote:

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing to:

Division of Oil, Gas and Mining PO Box 145801 Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet, Executive Secretary Utah Div. of Oil, Gas & Mining 1594 West Temple, Suite 1210 Salt Lake City, UT 801-538-5329 jsweet@utah.gov

It will be in the May 29 edition. Thank you. Cindy



## State of Utah

#### DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

May 22, 2012

Via e-mail <u>naclegal@mediaoneutah.com</u>

Salt Lake Tribune P. O. Box 45838 Salt Lake City, UT 84145

Subject: Notice of Agency Action - Newfield Production Company Cause No. UIC-392

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please <u>notify me via e-mail of the date it will be published</u>. My e-mail address is: <u>isweet@utah.gov</u>.

Please send proof of publication and billing for account #9001402352 to:

Division of Oil, Gas and Mining PO Box 145801 Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet

**Executive Secretary** 

Jan Sweet

Enclosure



From:

"Fultz, Mark" <naclegal@mediaoneutah.com>

To:

<jsweet@utah.gov> 5/22/2012 2:32 PM

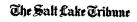
Date:

Subject:

Proof for Notice of Agency Action

Attachments: OrderConf.pdf

AD# 794885 Run SL Trib 5/25/12 Cost \$331.25 Please advise of any changes Thank You Ken







Remit to: P.O. Box 704005 West Valley City, UT 84170

### Order Confirmation for Ad #0000794885-01

Client

DIV OF OIL-GAS & MINING

**Payor Customer** 

DIV OF OIL-GAS & MINING

**Client Phone** 

801-538-5340

Payor Phone

801-538-5340

Account#

**Payor Account** 

Address

1594 W NORTH TEMP #1210, P.O. BOX 145801 Payor Address

SALT LAKE CITY, UT 84114 USA

1594 W NORTH TEMP #1210, P.O. BOX

SALT LAKE CITY, UT 84114

Fax

801-359-3940

Ordered By

Acct. Exec

**EMail** 

earlenerussell@utah.gov

Jean

kstowe

**Total Amount** 

**Payment Amt** 

\$331.25 \$0.00

**Tear Sheets** 

**Proofs** 

PO Number

**Affidavits** 

Public Meeting/Hear-ing Notices

Public Meeting/Hear-ing Notices

**Amount Due** 

\$331.25

0

Newfield Prod UIC-392

**Payment Method Confirmation Notes:** 

Text:

Jean

Ad Type

Ad Size

Color

Legal Liner

3.0 X 87 Li

<NONE>

**Product** 

**Placement** 

Legal Liner Notice - 0998

Scheduled Date(s):

Salt Lake Tribune::

05/25/2012

**Product** 

<u>Placement</u>

Scheduled Date(s):

sltrib.com:: Legal Liner Notice - 0998

05/25/2012

**Product** utahlegals.com::

Scheduled Date(s):

<u>Placement</u>

utahlegals.com 05/25/2012

**Position** 

<u>Position</u>

**Position** utahlegals.com

**Order Confirmation** for Ad #0000794885-01

**Ad Content Proof Actual Size** 

05/22/2012 2:32:33PM

1

#### **Order Confirmation** for Ad #0000794885-01

#### Ad Content Proof 135%

## BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. UIC-392

```
IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 12, 13, 15, 17, 19, 20, 21, 22, 23, 24, AND 25, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.
   THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.
  THE STATE OF DIAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITIED MATTER.

Notice is hereby giver that the Division of Oil, Gas and Mining (the "Division") is commercing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 17th Street, Suite 2000, Derver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for con-
   version to Class II injection wells:
Greater Morument Butte Unit:
   Monument Federal 22-121 well located in SE/4 NW/4, Section 12, Township 9 South, Range
   16 East
      API 43-013-15796
    Federal 5-13-9-16 well located in SW/4 NW/4, Section 13, Township 9 South, Range 16
   East
   Federal 13-15-9-16 well located in SW/4 SW/4, Section 15, Township 9 South, Range 16
   API 43-013-33136
Federal 7-17-9-16 well located in SW/4 NE/4, Section 17, Township 9 South, Range 16
   Federal 1-19-9-16 well located in NE/4 NE/4, Section 19, Township 9 South, Range 16
  East
   Federal 5-19-9-16 well located in SW/4 NW/4, Section 19, Township 9 South, Range 16
  Fast
     API 43-013-33174
  Federal 1-20-9-16 well located in NE/4 NE/4, Section 20, Township 9 South, Range 16 East API 43-013-33066
Federal 3-20-9-16 well located in NE/4 NW/4, Section 20, Township 9 South, Range 16 East API 43-013-33067
  Federal 5-20-9-16 well located in SW/4 NW/4, Section 20, Township 9 South, Range 16
  Federal 9-20-9-16 well located in NE/4 SE/4, Section 20, Township 9 South, Range 16 East
  API 43-013-33068
Federal 9-21-9-16 well located in NE/4 SE/4, Section 21, Township 9 South, Range 16 East
  Manument Federal 31-21-9-16Y well located in NW/4 NE/4, Section 21, Township 9 South,
  Range 16 East
API 43-013-31726
  Federal 1-22-9-16 well located in NE/4 NE/4, Section 22, Township 9 South, Range 16 East
 API 43-013-32612

Federal 7-22-9-16 well located in SW/4 NE/4, Section 22, Township 9 South, Range 16 East API 43-013-33027
 Federal 3-23-9-16 well located in NE/4 NW/4, Section 23, Township 9 South, Range 16 East
API 43-013-33176
 Federal 11-23-9-16 well located in NE/4 SW/4, Section 23, Township 9 South, Range 16
 East
     API 43-013-33178
 Federal 15-23-9-16 well located in SW/4 SE/4, Section 23, Township 9 South, Range 16
 East
 Federal 3-24-9-16 well located in NE/4 NW/4, Section 24, Township 9 South, Range 16 East API 43-013-33084
 Federal 15-24-9-16 well located in SW/4 SE/4, Section 24, Township 9 South, Range 16
    API 43-013-33344
 Federal 21-25Y well located in NE/4 NW/4, Section 25, Township 9 South, Range 16 East
    API 43-013-31394
 The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative
 Selected zones in the Green River Formation will be used for water injection. The maximum
 requested injection pressures and rates will be determined based on fracture gradient infor-
requested injection pressures and rates will be determined based at fracture gradient information submitted by Newfield Production Company.

Any person destring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, of P.O. Box 1 45801, Salt Lake City, UT 84114-5801, protest runber (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.
matter affects their interests.

Dated this 22rd day of May, 2012.
 STATE OF UTAH
DIVISION OF OIL, GAS & MINING
/s/Brad Hill
Permitting Manager
794885
```

UPAXLP



**GREGORY S. BELL** Lieutenant Governor

## State of Utah

#### DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA Division Director

August 15, 2012

Newfield Production Company 1001 Seventeenth Street, Suite 2000 Denver, CO 80202

Subject: Greater Monument Butte Unit Well: Federal 1-20-9-16, Section 20, Township 9 South, Range 16 East,

SLBM, Duchesne County, Utah, API Well # 43-013-33066

#### Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

- 1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
- 2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
- 3. A casing\tubing pressure test shall be conducted prior to commencing injection.
- 4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
- 5. The top of the injection interval shall be limited to a depth no higher than 3,939 feet in the Federal 1-20-9-16 well.

A final approval to commence injection will be issued upon satisfactory completion of the listed stipulations. If you have any questions regarding this approval or the necessary requirements, please contact Mark Reinbold at 801-538-5333 or Brad Hill at 801-538-5315.

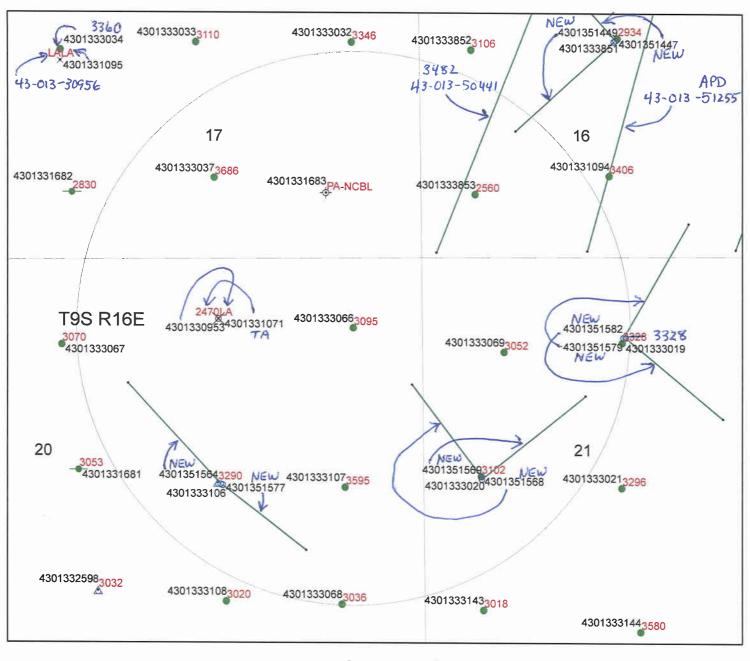
Associate Director

cc: Bruce Suchomel, Environmental Protection Agency Bureau of Land Management, Vernal **SITLA Duchesne County** Newfield Production Company, Myton

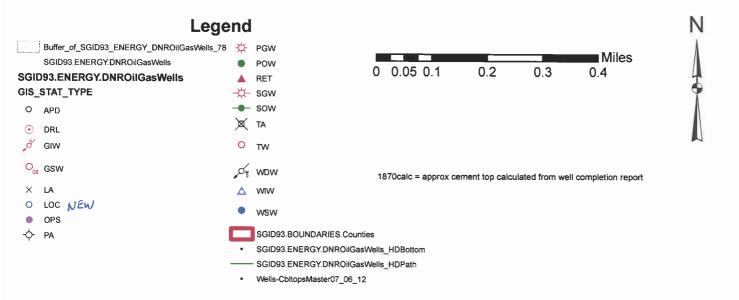
Well File

N:\O&G Reviewed Docs\ChronFile\UIC





Cement Bond Tops FEDERAL 1-20-9-16 API #43-013-33066 UIC 392.7



# DIVISION OF OIL, GAS AND MINING UNDERGROUND INJECTION CONTROL PROGRAM PERMIT STATEMENT OF BASIS

Applicant: Newfield Production Company	Well: <u>Federal 1-20-9-16</u>
<b>Location:</b> _20/9S/16E	<b>API:</b> 43-013-33066

Ownership Issues: The proposed well is located on BLM land. The well is located in the Greater Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM and the State of Utah. The Federal Government and the State of Utah are the mineral owners within the area of review (AOR). Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and lease holders in the half-mile radius. Newfield is the operator of the Greater Monument Butte Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

Well Integrity: The proposed well has surface casing set at 324 feet and has a cement top at the surface. A 5½ inch production casing is set at 6,029 feet. A cement bond log demonstrates adequate bond in this well up to about 3,095 feet. A 2 7/8 inch tubing with a packer will be set at 4,110 feet. Higher perforations will be opened at a later date. A mechanical integrity test will be run on the well prior to injection. On the basis of surface locations, there are 8 producing wells, 1 injection well, 1 temporarily abandoned well, and 1 P/A well in the AOR. In addition, there is 1 horizontal producing well with a surface location outside the AOR and a bottom hole location inside the AOR. There is also an approved surface location outside the AOR from which a horizontal well will be drilled to a bottom hole location inside the AOR. Finally, there are two proposed locations for directional wells with surface locations inside the AOR and bottom hole location outside the AOR and bottom hole location outside the AOR and bottom hole location inside. All of the existing wells have evidence of adequate casing and cement for the proposed injection interval.

Ground Water Protection: As interpreted from the Utah Geological Survey's DOE Project-Uinta Basin Water Draft Map (Paul B. Anderson, December 2, 2011), the base of moderately saline water (3000-10,000 mg/l TDS) is at a depth of approximately 2700 feet. Injection shall be limited to the interval between 3,939 feet and 5,958 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 1-20-9-16 well is 0.81 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,769 psig. The requested maximum pressure is 1,769 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

Federal 1-20-9-16 page 2

Oil/Gas& Other Mineral Resources Protection: The Board of Oil, Gas & Mining approved the Greater Monument Butte Unit on December 1, 2009. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

**Bonding:** Bonded with the BLM

Actions Taken and Further Approvals Needed: A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s):_	Mark Reinbold	Date	8/10/2012

Sundry Number: 31191 API Well Number: 43013330660000

	STATE OF UTAH DEPARTMENT OF NATURAL RESO	UDOFO	FORM 9
!	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-52018		
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
Do not use this form for procurrent bottom-hole depth, FOR PERMIT TO DRILL form	oposals to drill new wells, significar reenter plugged wells, or to drill ho n for such proposals.	ntly deepen existing wells below rizontal laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Oil Well	Management of the second of th		8. WELL NAME and NUMBER: FEDERAL 1-20-9-16
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	OMPANY		9. API NUMBER: 43013330660000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT	, 84052 435 646-4	PHONE NUMBER: 4825 Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0617 FNL 0652 FEL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSI Qtr/Qtr: NENE Section: 2	HIP, RANGE, MERIDIAN: 20 Township: 09.0S Range: 16.0E M	leridian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDI	CATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	✓ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	✓ CONVERT WELL TYPE
<b>✓</b> SUBSEQUENT REPORT  Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
10/12/2012	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
_	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12 DESCRIPE PROPOSED OR			1
	nas been converted from a	now all pertinent details including dates, o	· ·
injection well on 1	10/09/2012. On 10/10/20	12 Chris Jensen with the	Accepted by the Utah Division of
	GM was contacted concern		Oil, Gas and Mining
above listed well. O	on 10/12/2012 the casing	was pressured up to 1575	Date: October 22, 2012
		sure loss. The well was not	00 200
		e was 150 psig during the	By:
test. There was no	i a State representative av	vailable to witness the test.	
			İ
NAME (PLEASE PRINT)	PHONE NU	JMBER TITLE	
Lucy Chavez-Naupoto	435 646-487	I	
SIGNATURE N/A		<b>DATE</b> 10/19/2012	
		1 . 3. 10/2012	

Sundry Number: 31191 API Well Number: 43013330660000

# Mechanical Integrity Test Casing or Annulus Pressure Test

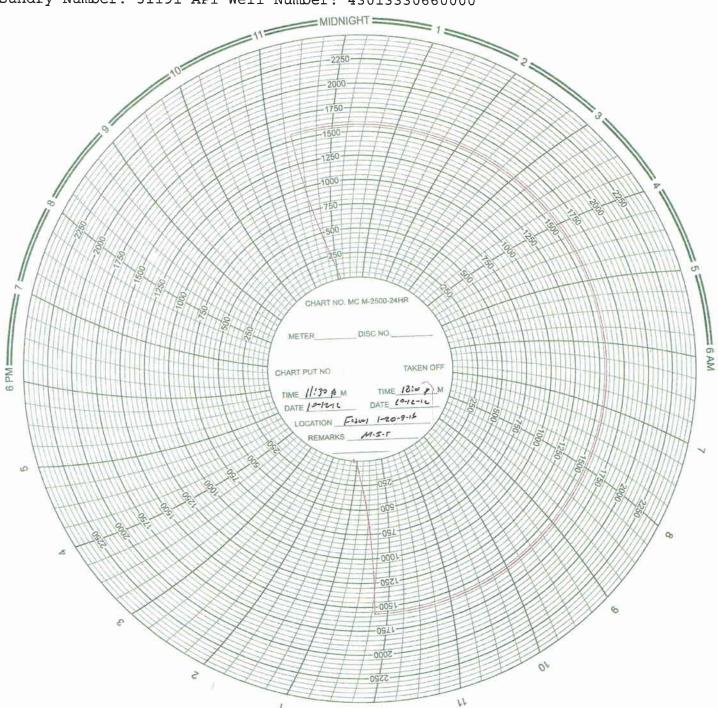
Newfield Production Company Rt. 3 Box 3630 Myton, UT 84052 435-646-3721

Witness:	Date 10 1 12 / 10 Time // :31 am pm
Test Conducted by: Rity Back, Others Present:	
Well: - 1-20-9-14	Field: Monument B-Ha
Well Location: Flans 1-70-9-16	API No: 4301353066

<u>Time</u>	<b>Casing Pressure</b>	
0 min	1515	psig
5	1575	psig
10	1575	psig
· 15	1575	psig
20	1575	psig
25	1575	psig
30 min	(575	psig
35		psig
40		psig
45		psig
50		psig
55		psig
60 min		_ psig
Tubing pressure:	150	_ psig
Result:	Pass	Fail

Signature of Witness:			
•	son Conducting Test:	- flat Belg	

Sundry Number: 31191 API Well Number: 43013330660000



NOON

#### **Daily Activity Report**

## Format For Sundry FEDERAL 1-20-9-16 8/1/2012 To 12/30/2012

10/4/2012 Day: 1

Conversion

Nabors #1608 on 10/4/2012 - MIRUSU. LD rods. Pressure test tbg. - RU pumping unit. Unseat rod pump. Flush tbg w/ 40 BW @ 250°. - Soft seat rods & fill tbg w/ 12 BW. Pressure tbg to 3000 psi. Pressure was dropping off slow. Pressure tbg to 5000 psi attempting to open hole bigger w/o success. - LD 215- 3/4" rods, ponies & polished rod on trailer. Flush tbg & rods w/ additional 20 BW during TOH. - X-over for tbg equipment. Tie drill line back single line. ND wellhead. TA was not set. NU BOPs. RU rig floor. - Flush tbg w/ 30 BW. Drop standing valve down tbg. Fill tbg & pressure test tbg to 3000 psi (good test). - RU sandline. RIH w/ fishing tool on sandline & retrieve. - MIRUSU. Hot oiler had pumped 60 bbls water down csg @ 250°.

Daily Cost: \$0

**Cumulative Cost:** \$8,328

10/5/2012 Day: 2

Conversion

Nabors #1608 on 10/5/2012 - TOH w/ tbg (talleying, breaking collars & applying Liquid-Oring to threads). LD 48- jts tbg on trailer. - Release RBP & reset @ 4090'. Set pkr @ 4076' (above all perfs). Test to 4000 psi. Move tools to find GB6 sds. Locate perfs. Set RBP @ 4200'. Move pkr up hole to locate perfs. GB6 sds take fluid @ 3/4 bpm @ 1350 psi. There is a 18' correction some where (can't find in tally). Release PKR and leave Hang @ 3971'. - On standby waiting for possible frac schedule change. - On standby waiting for possible frac schedule change. - TOH w/ 134- jts 2 7/8" 6.5# 8rd EUE tbg (talley, breaking collars & applying Liquid O-ring to threads). TA kept hanging up on TOH. - TOH w/ 134- jts 2 7/8" 6.5# 8rd EUE tbg (talley, breaking collars & applying Liquid O-ring to threads). TA kept hanging up on TOH. - LD 48- its on tbg on trailer. Bottom 3- its had a lot of scale. - LD 48- its on tbg on trailer. Bottom 3- jts had a lot of scale. - SWIFN. RU pump & pump lines. - SWIFN. RU pump & pump lines. - Held safety meeting & discussed JSA's, Open well w/ 0 psi on casing. RU perferators WLT & lubricator. RIH w/ gauge ring to 4720'. Perferate D1 sds @ 4636-39' w/ 3 spf for total of 9 shots. - Held safety meeting & discussed JSA's. Open well w/ 0 psi on casing. RU perferators WLT & lubricator. RIH w/ gauge ring to 4720'. Perferate D1 sds @ 4636-39' w/ 3 spf for total of 9 shots. - RU 5-1/2" "TS" RBP, on/off tool, 2-3/8" x 4' pup joint, "HD" pkr. PU Tally, drift & TIH w/ work string tbg. Set RBP @ 4670'. Set pkr @ 4645'. - RU 5-1/2" "TS" RBP, on/off tool, 2-3/8" x 4' pup joint, "HD" pkr. PU Tally, drift & TIH w/ work string tbg. Set RBP @ 4670'. Set pkr @ 4645'. - Tools won't test. Move pkr. Still won't test. - Tools won't test. Move pkr. Still won't test. - Release RBP & reset @ 4090'. Set pkr @ 4076' (above all perfs). Test to 4000 psi. Move tools to find GB6 sds. Locate perfs. Set RBP @ 4200'. Move pkr up hole to locate perfs. GB6 sds take fluid @ 3/4 bpm @ 1350 psi. There is a 18' correction some where (can't find in tally). Release PKR and leave Hang @ 3971'.

Daily Cost: \$0

**Cumulative Cost:** \$16,122

10/8/2012 Day: 4

Conversion

Nabors #1608 on 10/8/2012 - Frac D-1 Sands, FB, CO top of RBP and retrieve RBP. POOH. RBIH w/injection string. - Waith for acid truck from Multi-chem. - SWIFN. - Spot in pipe trailer and start LD pipe. LD 95 jts of 2 7/8" N-80 tbg. - Had to wair on semi trailer to LD pipe. Well still flowing after releasing the plug. - Release pkr, RD frac valve, RIH to latch on to RBP. Had to CO 15' of fill. Circ clean and released plug. - Open tbg up to FB on a 20 choke. Died down

Sundry Number: 31191 API Well Number: 43013330660000 Summary Rig Activity

Page 2 of 2

to 0 after 20 bbls. - Filled backside w/12 bbls and PU to 500 psi. Frac D-1 sands 4636-39'. RD frac crew, called runners for the tbg trailer. - Spot in frac crew and RU lines. Set pkr @ 4614'. - Safety Meeting, discussed location hazards, recent NFX incidents, job procedure, emergency plans, meeting point. - Move plug down to 4670' and plug up to 4662'. Pressure test plug to 4000 PSI. Good test. - RU Muti-chem and pump 2 Bbls acid. Pump 24 Bbls behind HCL to spot @ 4640'. Move PKR above perfs to 4608' and start breaking dwn zones. BD @ 3700 psi. Increased rate to .5 Bbl and pumped 5 bbls @ 1500 psi. shut down and pressurebled down to zero in less then a minute. - Waiting on frac crew.

Daily Cost: \$0

**Cumulative Cost:** \$84,384

#### 10/9/2012 Day: 5

Conversion

Nabors #1608 on 10/9/2012 - TIH w/ pkr. Test tbg. Set pkr. Test casing. RDMOSU. Well ready for MIT. - Held safety meeting & discussed JSA's. TIH w/ XN nipple, 2-3/8" x 4' pup jt, XO sub (2-7/8" t0 2-3/8"), "HD" pkr, On/Off tool, PSN, 133 jts 2-7/8" tbg. - Tighten well head bolts. Test casing to 1400 psi. Took 2 attempts. - Pump 20 bbls fluid. Drop STD vlve. Fill tbg w/ 12 bbls. Test tbg to 3000 psi for 30 min, took 3 attempts. - RDMOSU. Well ready for MIT. - Pump 50 bbls pkr fluid. Set pkr w/ 15,000#'s tension @ 4107' CEO. 4117' EOT. - Single line rig. RD BOP's. Hang tbg in well on 6' pup joint. - RU sand line & fish std valve.

Daily Cost: \$0

**Cumulative Cost:** \$113,603

#### 10/16/2012 Day: 6

Conversion

Rigless on 10/16/2012 - Conduct initial MIT - On 10/10/2012 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/12/2012 the casing was pressured up to 1575 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 150 psig during the test. There was not a State representative available to witness the test. **Finalized** 

TO LIGHT STORM INTERNATION AND TO COLUMN ASSESSMENT OF THE STORM AND A STORM A

Daily Cost: \$0

**Cumulative Cost:** \$190,137

**Pertinent Files:** Go to File List

Sundry Number: 32105 API Well Number: 43013330660000

<u> </u>							
	STATE OF UTAH DEPARTMENT OF NATURAL RESOUR				FORM 9		
ι	5.LEASE UTU-5	DESIGNATION AND SERIAL NUMBER: 2018					
SUNDR	RY NOTICES AND REPORTS	ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
Do not use this form for pro current bottom-hole depth, a FOR PERMIT TO DRILL form	oposals to drill new wells, significantly reenter plugged wells, or to drill horiz n for such proposals.	y deep ontal l	en existing wells below aterals. Use APPLICATION	7.UNIT o GMBU (	r CA AGREEMENT NAME: GRRV)		
1. TYPE OF WELL Water Injection Well					NAME and NUMBER: RAL 1-20-9-16		
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	DMPANY			9. API NU 43013	JMBER: 330660000		
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT,	, 84052 435 646-482		NE NUMBER: t		and POOL or WILDCAT: //ENT BUTTE		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0617 FNL 0652 FEL QTR/QTR, SECTION, TOWNSH	HIP RANGE MERIDIAN:	-410-5		COUNTY			
Qtr/Qtr: NENE Section: 2	20 Township: 09.0S Range: 16.0E Mer	idian:	S	STATE: UTAH			
11. CHECI	K APPROPRIATE BOXES TO INDICA	ATE N	ATURE OF NOTICE, REPOR	RT, OR O	THER DATA		
TYPE OF SUBMISSION			TYPE OF ACTION	-	/		
	ACIDIZE		ALTER CASING		CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS		CHANGE TUBING		CHANGE WELL NAME		
/	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS	✓	CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN DEEPEN		FRACTURE TREAT		NEW CONSTRUCTION		
11/13/2012	OPERATOR CHANGE	□ F	PLUG AND ABANDON		PLUG BACK		
SPUD REPORT	PRODUCTION START OR RESUME	□ <b>,</b>	RECLAMATION OF WELL SITE		RECOMPLETE DIFFERENT FORMATION		
Date of Spud:	REPERFORATE CURRENT FORMATION		SIDETRACK TO REPAIR WELL		TEMPORARY ABANDON		
	☐ TUBING REPAIR		/ENT OR FLARE		WATER DISPOSAL		
DRILLING REPORT Report Date:	WATER SHUTOFF		SI TA STATUS EXTENSION		APD EXTENSION		
	WILDCAT WELL DETERMINATION	1	OTHER	ОТНЕ	R: Put on Injection		
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show	v ali pe	rtinent details including dates d		*		
	erence well was put on inje 11/13/2012.			Oi	Accepted by the Utah Division of il, Gas and Mining R RECORD ONLY		
					November 19, 2012		
Ċ							
·							
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUM 435 646-4874		TITLE Water Services Technician		Professional Adults and Control of the Control of t		
SIGNATURE N/A			<b>DATE</b> 11/15/2012				

#### FEDERAL 1-20-9-16

Spud Date: 05/16/07 Put on Production: 07/25/07

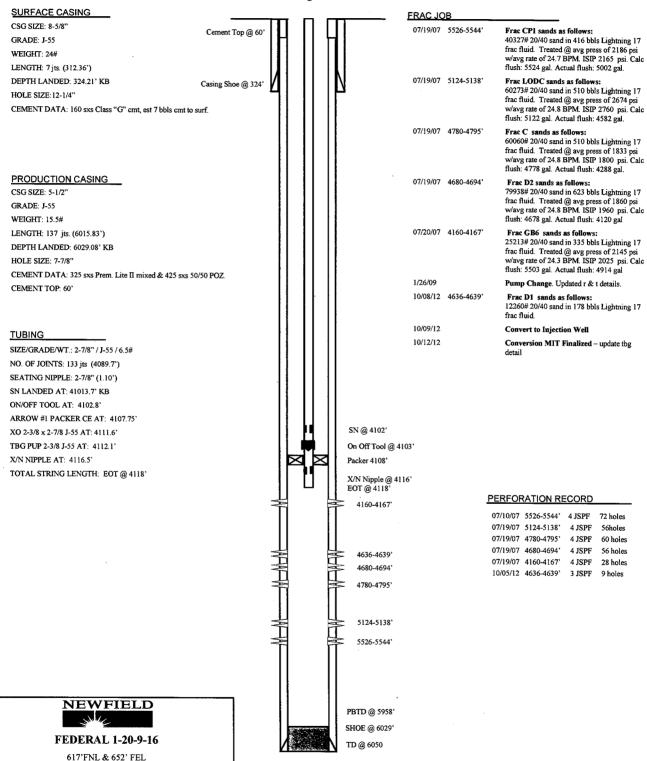
NE/NE Section 20-T9S-R16E

Duchesne Co, Utah

API #43-013-33066; Lease # UTU-52018

GL: 6038' KB: 6050'

Injection Wellbore Diagram





Governor

GREGORY S. BELL Lieutenant Governor

## State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER

Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA Division Director

## UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-392

**Operator:** 

Newfield Production Company

Well:

Federal 1-20-9-16

Location:

Section 20, Township 9 South, Range 16 East

County:

Duchesne

API No.:

43-013-33066

Well Type:

Enhanced Recovery (waterflood)

## Stipulations of Permit Approval

Approval for conversion to Injection Well issued on August 15, 2012. 1.

Maximum Allowable Injection Pressure: 1,769 psig 2.

Maximum Allowable Injection Rate: (restricted by pressure limitation) 3.

Injection Interval: Green River Formation (3,939' - 5,958') 4.

Any subsequent wells drilled within a ½ mile radius of this well shall have 5. production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

Approved by:

Associate Director

JR/MLR/is

cc: Bruce Suchomel, Environmental Protection Agency

Bureau of Land Management, Vernal

Eric Sundberg, Newfield Production Company, Denver

Newfield Production Company, Myton

**Duchesne County** 

Well File

N:\O&G Reviewed Docs\ChronFile\UIC\Newfield





February 17, 2006

State of Utah
Division of Oil, Gas & Mining
Attn: Diana Whitney
1594 West North Temple - Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill: 1-19-9-16, 2-19-9-16, 3-19-9-16, 4-19-9-16, 1-20-9-16, 3-20-9-16, 9-20-9-16, and 4-21-9-16.

#### Dear Diana:

Enclosed find APD's on the above referenced wells. The proposed Federal 1-19-9-16 is an Exception Location. Our Land Department will send you the required Exception Location Letter. If you have any questions, feel free to give either Shon Mckinnon or myself a call.

Sincerely

Mandie Crozier

Regulatory Specialist

mc

enclosures

RECEIVED FEB 2 1 2006

DIV. OF OIL, GAS & MINING

Form 3160-3 (September 2001)			FORM APPR OMB No. 100 Expires January	14-0136			
UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANAC	5. Lease Serial No. UTU-52018						
APPLICATION FOR PERMIT TO DE			6. If Indian, Allottee or N/A	Tribe Name			
1a. Type of Work: DRILL REENTER	1a. Type of Work: DRILL REENTER						
1b. Type of Well:  Oil Well  Gas Well  Other	🗵 Single Zone 📮 Multi	ple Zone	8. Lease Name and Well I Federal 1-20-9-1				
Name of Operator     Newfield Production Company			9. API Well No. 43-01	3-33066			
3a. Address	3b. Phone No. (include area code)		10. Field and Pool, or Expl	oratory			
Route #3 Box 3630, Myton UT 84052	(435) 646-3721		Monument Butte				
4. Location of Well (Report location clearly and in accordance with At surface NE/NE 617' FNL 652' FEL 5'73779 At proposed prod. zone 44 30 336	x 40,021886		11. Sec., T., R., M., or Blk. and Survey or Area  NE/NE Sec. 20, T9S R16E				
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State			
Approximatley 15.2 miles southwest of Myton, Utah			Duchesne	UT			
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 652' f/lse, NA' f/unit	16. No. of Acres in lease 640.00	17. Spacin	Spacing Unit dedicated to this well 40 Acres				
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1369'	19. Proposed Depth 6040'		20. BLM/BIA Bond No. on file UTB000192				
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will sta	rt*					
6038' GL	2nd Quarter 2006	Approximately seven (7) days from spud to rig release.					
	24. Attachments						
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, shall be at	tached to this	s form:				
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>	Lands, the Lands, the Lands, the Lands, the Lands, the Lands, the Lands	5 Operator partification					
25. Signature Jamelier Cussier	Name (Printed/Typed) Mandie Crozier		Date	2/17/06			
Title Regulatory Specialist							
Approved by (Signatura)	NamBRADUEY C		J <b>Y</b> E)	2-23-06			

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct

Office

\*(Instructions on reverse)

Conditions of approval, if any, are attached.

operations thereon.

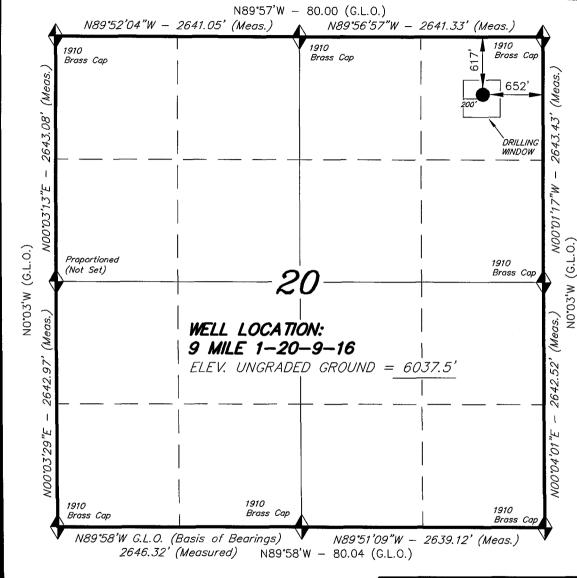
Title

RECEIVED FEB 2 1 2006

Federal Approval of this Action is Necessary

DIV. OF OIL, GAS & MINING

## T9S, R16E, S.L.B.&M.

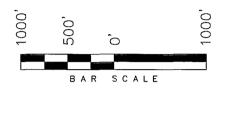


♦ = SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SW) 9 MILE 1-20-9-16 (Surface Location) NAD 83 LATITUDE = 40° 01' 18.99" LONGITUDE = 110° 08' 09.95"

#### NEWFIELD PRODUCTION COMPANY

WELL LOCATION, 9 MILE 1-20-9-16, LOCATED AS SHOWN IN THE NE 1/4 NE 1/4 OF SECTION 20, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.





#### TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501

DATE SURVEYED: 12-31-05	SURVEYED BY: C.M.
DATE DRAWN: 01-04-06	DRAWN BY: L.C.S.
REVISED:	SCALE: 1" = 1000'

#### NEWFIELD PRODUCTION COMPANY FEDERAL #1-20-9-16 NE/NE SECTION 20, T9S, R16E DUCHESNE COUNTY, UTAH

#### ONSHORE ORDER NO. 1

#### DRILLING PROGRAM

#### 1. <u>GEOLOGIC SURFACE FORMATION:</u>

Uinta formation of Upper Eocene Age

#### 2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta

0' - 2600'

Green River

2600'

Wasatch

60403

#### 3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 2600' - 6040' - Oil

#### 4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

#### 5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "C".

#### 6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

#### 7. AUXILIARY SAFETY EOUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

#### 8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

#### 9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

#### 10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

#### NEWFIELD PRODUCTION COMPANY FEDERAL #1-20-9-16 NE/NE SECTION 20, T9S, R16E DUCHESNE COUNTY, UTAH

#### ONSHORE ORDER NO. 1

#### MULTI-POINT SURFACE USE & OPERATIONS PLAN

#### 1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site Federal #1-20-9-16 located in the NE 1/4 NE 1/4 Section 20, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southwesterly -10.9 miles  $\pm$  to it's junction with an existing road to the southeast; proceed southeasterly -2.0 miles  $\pm$  to it's junction with an exiting road to the northeast; proceed northeasterly -0.4 miles  $\pm$  to it's junction with the beginning of the proposed access road; proceed along the proposed access road -1,570' $\pm$  to the proposed well location.

#### 2. PLANNED ACCESS ROAD

See Topographic Map "B" for the location of the proposed access road.

#### 3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

#### 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

All permanent surface equipment will be painted Carlsbad Canyon.

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

#### 5. LOCATION AND TYPE OF WATER SUPPLY

Please refer to the Monument Butte Field SOP. See Exhibit "A".

#### 6. <u>SOURCE OF CONSTRUCTION MATERIALS</u>

Please refer to the Monument Butte Field SOP.

#### 7. METHODS FOR HANDLING WASTE DISPOSAL

Please refer to the Monument Butte Field SOP.

#### 8. ANCILLARY FACILITIES

Please refer to the Monument Butte Field SOP.

#### 9. <u>WELL SITE LAYOUT</u>

See attached Location Layout Diagram.

#### 10. PLANS FOR RESTORATION OF SURFACE

Please refer to the Monument Butte Field SOP.

#### 11. <u>SURFACE OWNERSHIP</u> - Bureau Of Land Management

#### 12. OTHER ADDITIONAL INFORMATION

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #05-225, 7/13/05. Paleontological Resource Survey prepared by, Wade E. Miller, 11/10/05. See attached report cover pages, Exhibit "D".

For the Federal #1-20-9-16 Newfield Production Company requests 1,570' of disturbed area be granted in Lease UTU-52018 to allow for construction of the proposed access road. Refer to Topographic Map "B". The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Newfield Production Company requests 1,570' of disturbed area be granted in Lease UTU-52018 to allow for construction of the proposed gas lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a buried 6" gas gathering line, and a buried 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

Newfield Production Company requests 1,570' of disturbed area be granted in Lease UTU-52018 to allow for construction of the proposed water lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

#### Water Disposal

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

Threatened, Endangered, And Other Sensitive Species Golden Eagle: Lease Notice Only.

#### Reserve Pit Liner

A 12 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

#### Location and Reserve Pit Reclamation

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Crested Wheatgrass

Agropyron Cristatum

4 lbs/acre

Needle and Threadgrass

Stipa Comata

4 lbs/acre

Indian Ricegrass

Oryzopsis Hymenoides

4 lbs/acre

#### **Details of the On-Site Inspection**

The proposed Federal #1-20-9-16 was on-sited on 11/3/05. The following were present; Shon Mckinnon (Newfeild Production), Melissa Hawk (Bureau of Land Management), and Amy Torres (Bureau of Landmanagement). Weather conditions were clear and ground cover was 100% open.

#### 13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

#### Representative

Name:

Shon Mckinnon

Address:

Route #3 Box 3630

Myton, UT 84052

Telephone:

(435) 646-3721

#### Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #1-20-9-16 NE/NE Section 20, Township 9S, Range 16E: Lease UTU-52018 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

2/17/06 Date

Mandie Crozier

Regulatory Specialist

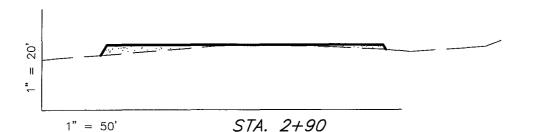
Newfield Production Company

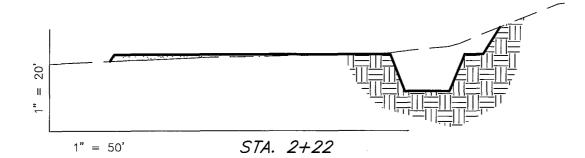
## NEWFIELD PRODUCTION COMPANY 9 MILE 1-20-9-16 Section 20, T9S, R16E, S.L.B.&M. PREVAILING WIND F/0.4 TOPSOIL STOCKPILE (4) F/1.0 STA. 2+90 PIT TOPSOIL STOCKPILE C/0.1 50 Toe of \_\_\_ Fill Slope STA. 2+22 2' Berm Around Fill Portion of Location RESERVE C/1.0 F/2.2 29' (5) 120' (8' Deep, STA. 1+60 (D) C/1.8 WELL HEAD: UNGRADED = 6037.5'FIN. GRADE = 6036.5**EXCESS** MATERIAL Top of Cut Slope STA. 0+00 8) F/3.0 PROPOSED ACCESS . REFERENCE POINTS ROAD (Max. 6% Grade) 170' NORTHERLY 6033.4' 220' NORTHERLY 6029.9' $bar{Yri~State}{Land~Surveying,~Inc.}$ (435) 781-2501 1" = 50'SCALE: SURVEYED BY: C.M. 01-09-06 L.C.S. DRAWN BY: DATE:

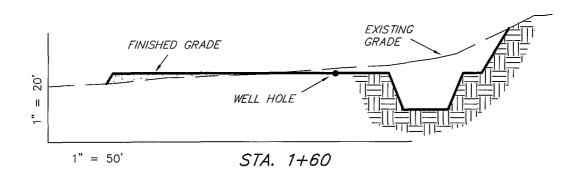
## NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

## 9 MILE 1-20-9-16









1" = 50'

STA. 0+00

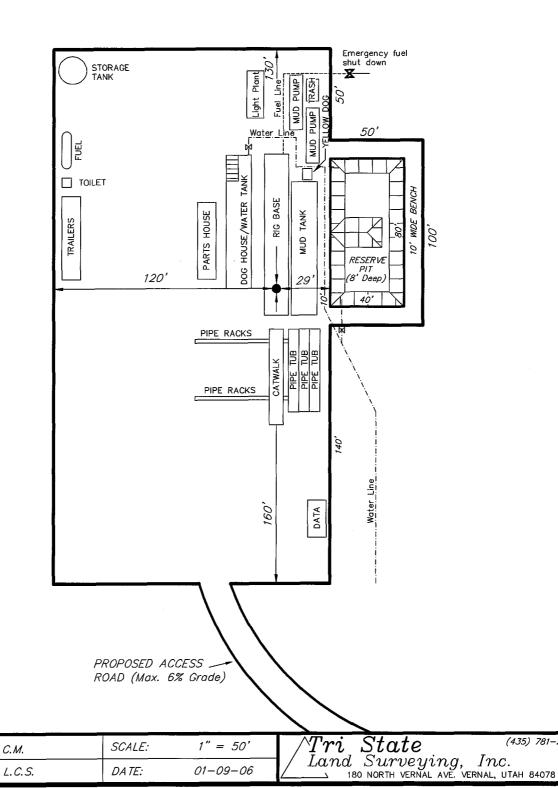
E	STIMA	TE	D EA	RTHWORK	QUA	NTITI	ES
(No	Shrink	or	swell	adjustments	have	been	used)
	(1	Fvn	resser	d in Cubic Yo	rde)		

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	1,240	1,240	Topsoil is	0
PIT	640	0	in Pad Cut	640
TOTALS	1,880	1,240	970	640

NOTE: UNLESS OTHERWISE NOTED ALL CUT/FILL SLOPES ARE AT 1.5:1

SURVEYED BY:	C.M.	SCAL	E:   1" = 50'	
DRAWN BY:	L.C.S.	DA TE	E: 01-09-06	3

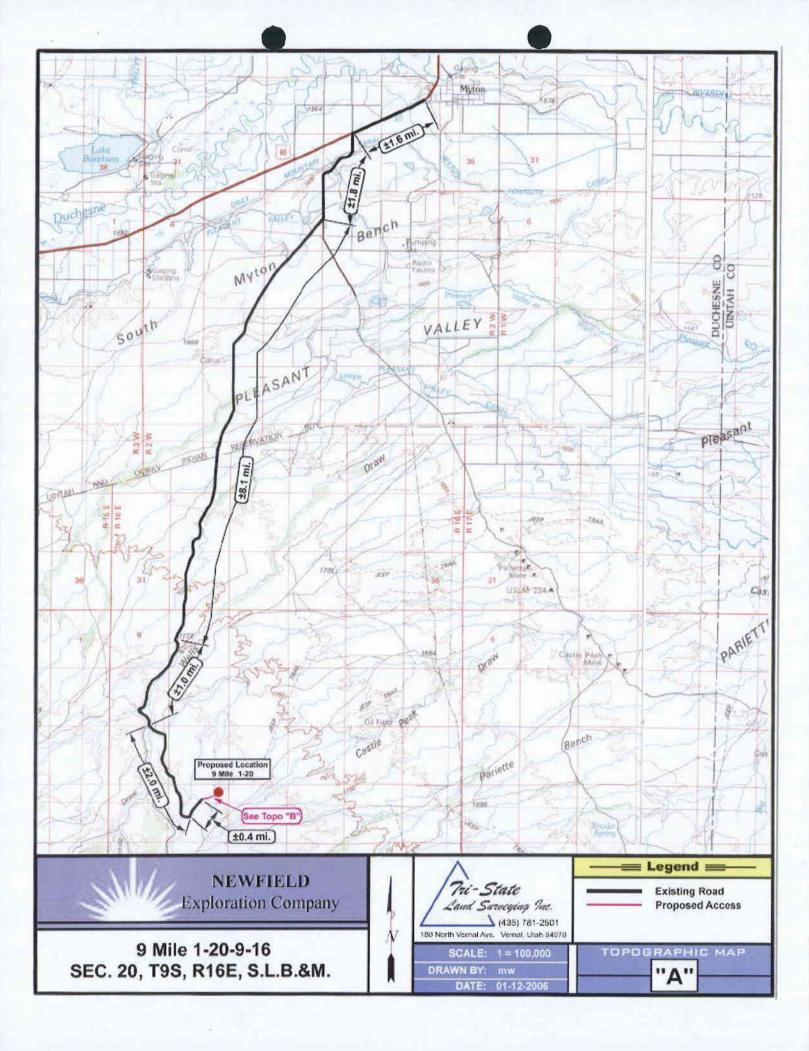
## NEWFIELD PRODUCTION COMPANY TYPICAL RIG LAYOUT 9 MILE 1-20-9-16

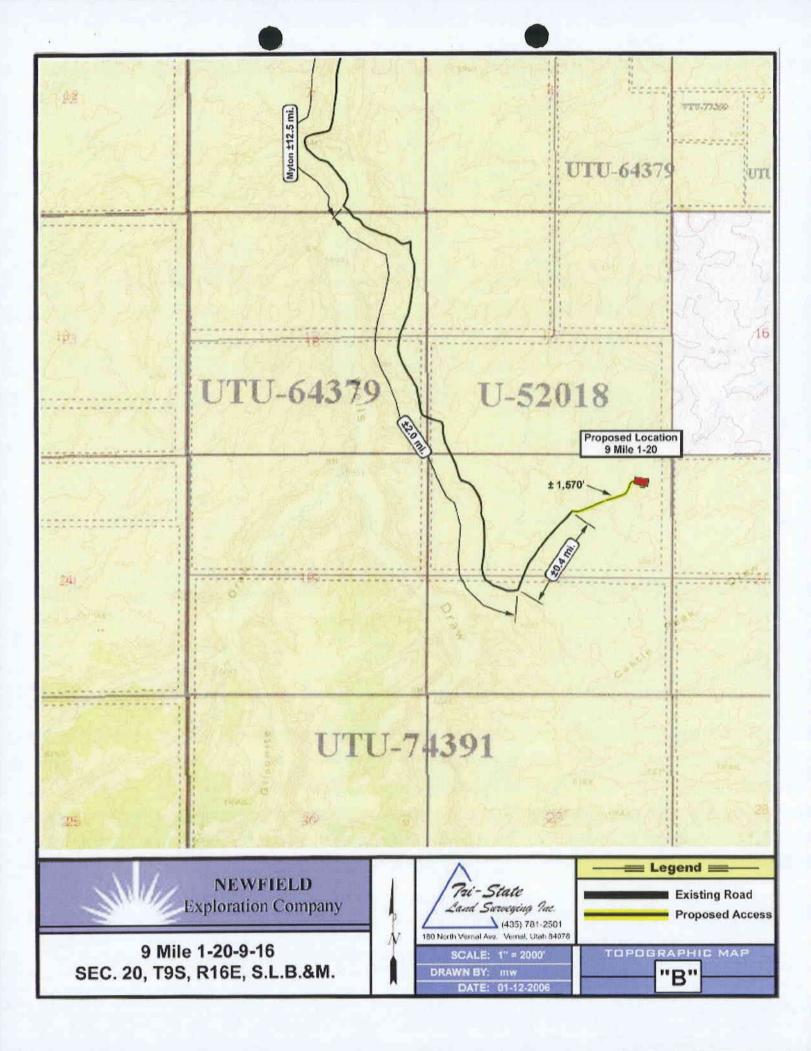


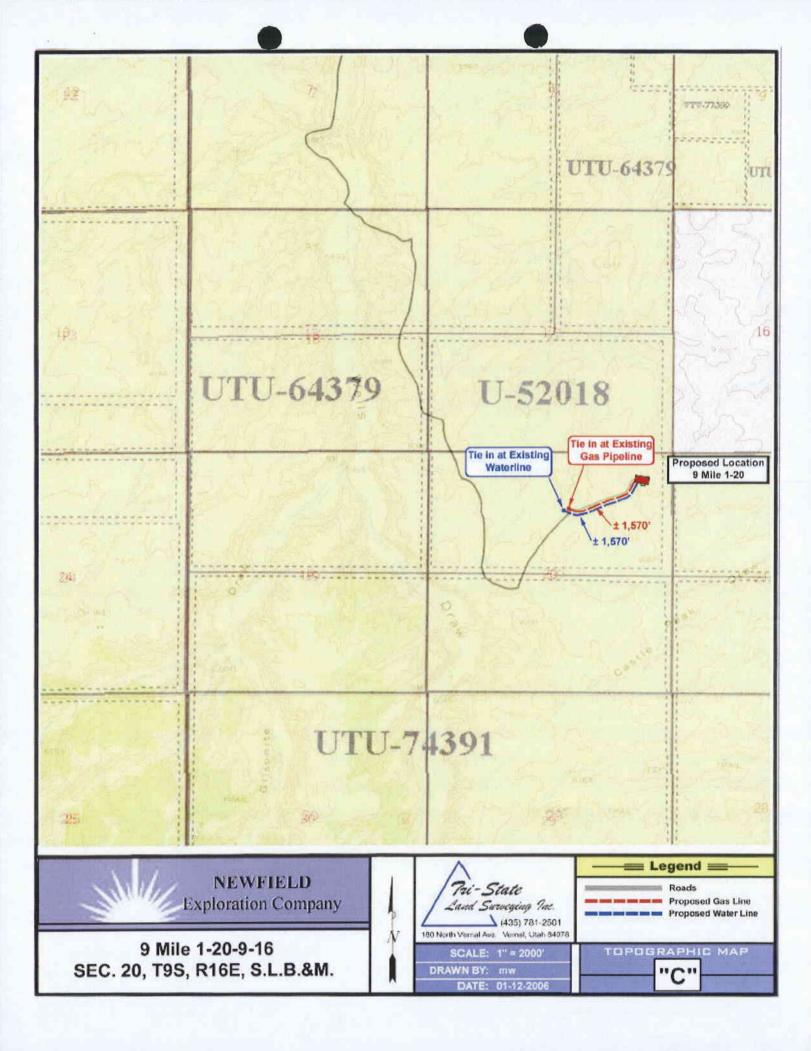
SURVEYED BY:

DRAWN BY:

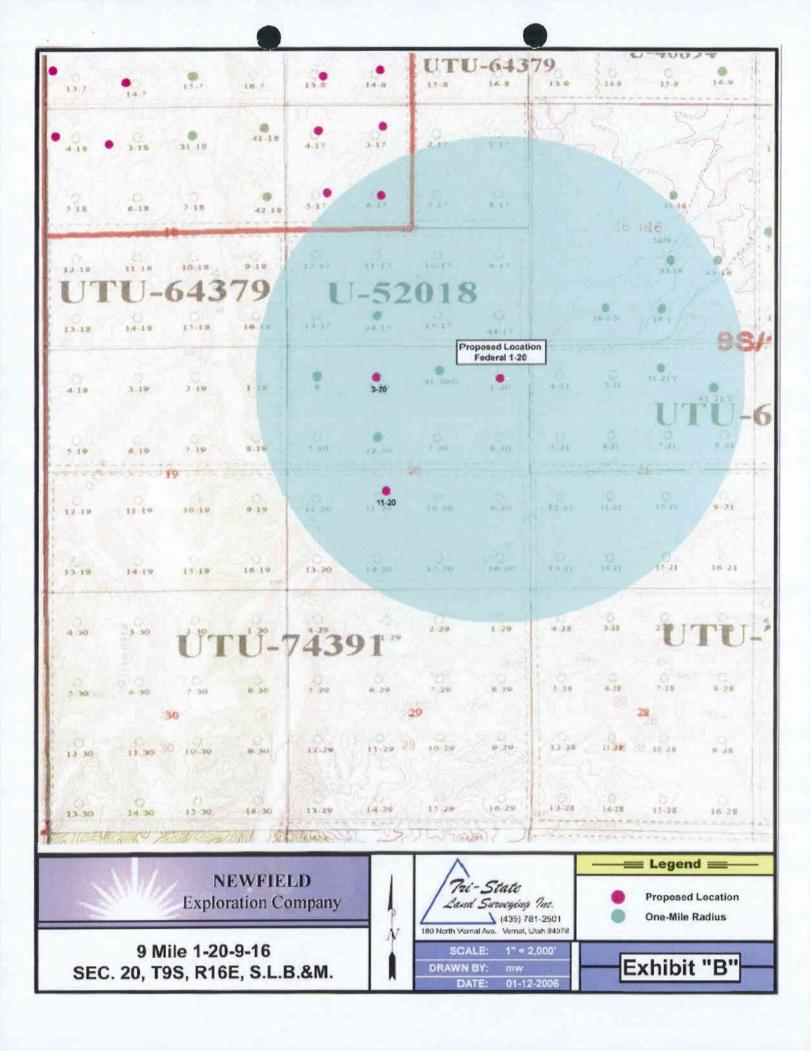
(435) 781-2501





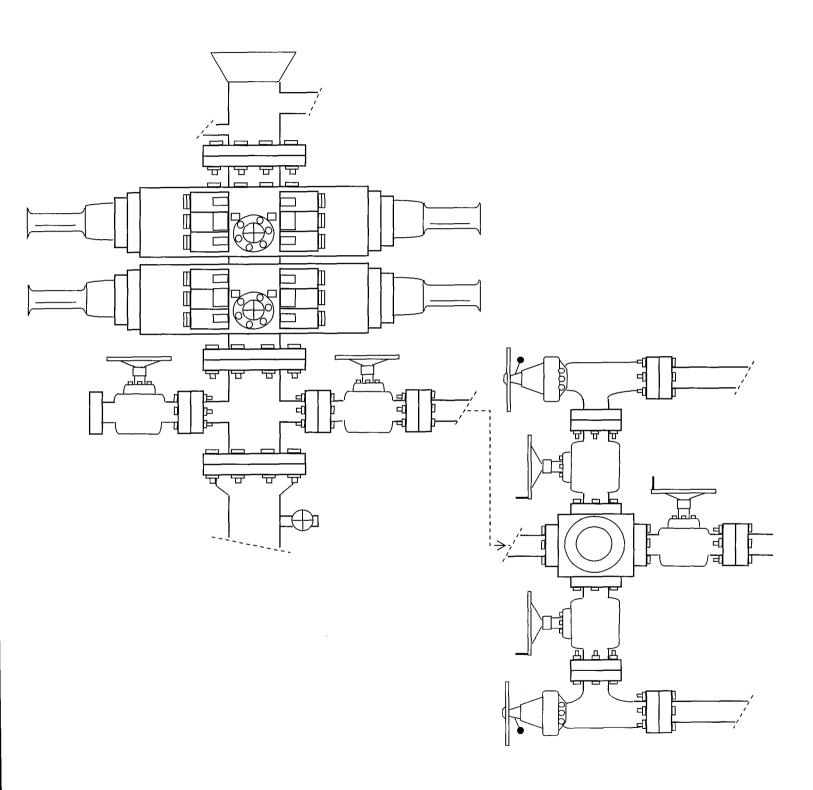


8	10	11	12	.7	6	á	10	11	12	7	в	9	10	it	12	7	8	9	Newfield Wells Location Surface Spud	
18	18	14	13	70	17	16 T4S	R2W	14	13	18	17		IS-R1W	14	13	18	17	18	Profiling Weiting on Comp Producing Oil We Producing Gas W	vell
21	22	6-R3W	24	18	20	21	22	23	24	521 724 18 624 624	20	21	22	23	24	19		T45-R1	Dry Hole     Temporarily Abar     Plugged & Aband     Shut In	ndoned doned
28	27	28	25	30	223	28	Fanceline	10/71 521 5	332 234 134 2 24 24 24 24 2 24 24 24 24 24 2 4 24 24 24 24 24 24 24 24 24 24 24 24 24	* H <sup>2</sup> 1	T8S-R1	7 E <sub>21</sub> 21 021/21 021 21 021/21 021	27 31-22 - 23 22 32-22 - 23 22 32-22 - 23 22 32-22 - 23		25 26 0000 24 7-24 8-24 000 10-24 8-34	30	29	28	<ul> <li>✓ Water Source We</li> <li>✓ Water Disposal V</li> <li>☑ Injection Stations</li> <li>UnitOutlines</li> </ul>	Vell
33	34	28		30 T8S-R16	20 Trevis	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	18 20 226 (26 18 626 626 626 12 62 626 626	125 125 23 125 125 125 125 125 125 125 125 125 125	20 530 3730 530 30 630 530 630 30 630 630 630	28 629 729R 629 (29 629 729R 629 (29 629 729R 629 729R 629 729R 629 (29 629 729R 629 629 629 629 629 629 629 629 629 629	20 520 220 4 20 520 220 4 20 620 720 620 620	20 / 20 / 20 / 20 / 20 / 20 / 20 / 20 /	100 100 100 100 100 100 100 100 100 100 100	/1/2 / 63 /1/2 / 63 23	30 23-50	S-R18 29 6% 20% 16% 40% 15 26% 25%	28	27 15-27 35-28 35-	35
T55	R3W	25tn 35 36	15E West	Point Wells D			234 (34 M	431 525 431	1500 100 100 100 100 100 100 100 100 100 1	รา รา รา รา เรา เรา รา เรา เรา เรา รา เรา	1-32 2A-32 1A-32 1-32 1-32 1-32 10-32	(mein /mein 1	24 34 634 734 834 31 1034 834	Sa Zás	100 c30 fac c30 fac	รู้ รา ซึ่งใหญ่ใน รา ซึ่งใจเหมือ	32 /22 / 152R	33	Podette 135 235 335 336 334 434 345 350 4	36-11 42-3
9	10	1 2 1 2 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	6 3 6 1	stevener its fin	10 71-80 41-80 21-4	37.40 ( 4.5 ( 10.4 ( 10.5)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		in in minesi in in minesi in is so in	10 510 460 20 20 20 20 50 20 20 40	24 51.5 1.5 24 24 76 85 5 24 76 85	24 4 64 2348 64 61 184 84	3 23 55 24 12 3 24 160 24 15	2 2 62	15-1 18-1 15-1 15-1 18-1 15-1 15-1		12-5 11-6 10-6 B-6	<u>7.4.8.8</u> 8.6.4.8 8.6.4.6 8.6.4.6	3 ಕ್ಕಿಪ	,
18	15 610 41 3 8-10 41 6 10 6-11	291 291 292 393 291 292 393 293 293 293 293 293 293 293 293	2 292 64 67	ភូនិង ភូនិ ស្ត្រី គឺ ខ	21-8 / the six	10 g/s	10 10 1R	111 25-111 1111/25-111 3 45-11	1 2 2 2 2	Deruga 11.7 10-7 43-7 13-7 18-7	15-0 zile 55-0 45-0 16-0 zile 55-0 45-0	บลหระสา 19 โด ข้อมระดาร์ด ข้อ ข้อม " ข้อมชื่อ	10 ±10 11 11 11 11 11 11 11 11 11 11 11 11 1	11 11 7,54 8-51 1 12 10-11 8-51 12-14-11 10-11	42 642 742 642 12 12 12-12 11-12 10-12 643 12-12-12-12-12	\$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$4 \$4	24 24 24		10 KTO 11.	12
21	675 C12 474 574 574 574 574 574 574 574 574 574	514 284 1-14 93 51 644 254 644 43 6 184 ° 684 1243 11	3 24 15 73 74 67 3 43 104 67	31-88Y 21 5	17	15 15	2° 31°15 41-11 2°15 42°15	9 2/-14 2 41-14	1 21-73y 2-13 1-13	18 75 6-18	11.17 2 11.17 41.17 11.17 11.12 11.17	16-15 16-2 16-5 7-16 8-16 15-168 10-18 16-4	25-115-1-15 5-15 5-15 1-15 11-15 10-15 12	4 14 814 44 11410-14 214	13 12-13 * 15-13 9-13	18 18 18 18 18 18 18 18 18 18 18 18 18 1	5-97 25-97 17 5-97 18-97	3-16 1-16 16 11-3-6 9-3-6	15 14 	-
28 5-22		243 223 123 434 23 723 234		+	31-200	31/21 # 11/22 21 (16E			1534 24	19 19 19	20-1	21 19S-R1	22	23	24	43-11	24 22-20Y	21 T98	22 23 3-R18E	24
33	27 29	+	25	20	29	28	27	28 7-28	21-28Y 28	30	29	28	27	28	28	30	29 25-29	28	27 28	25
	34	35	38	31	32	33	34	35	36	31	32	33	34	35	38	31	32	32	NEWFIELD  ROCKY MOUNTAINS  Exhibit A	+
11	0S-R(5	2	i	8	8	4	3	110S-R	, 16E	710	S-R17E	4	3	2	A	T10	S-R18E	Alamo Pa 1401 178 Derova, C Phono: (3	Duchesse & Ulenah Counties not Bulking Street Bails 1000 closeds 802001-1247 3003 983-0102	Decay   A Mills



2-M SYSTEM

Blowout Prevention Equipment Systems



**EXHIBIT C** 

Exhibit "D"

Page 10f2

CULTURAL RESOURCE INVENTORY OF NEWFIELD EXPLORATION'S BLOCK PARCEL IN TOWNSHIP 9S, RANGE 16E, SECTION 19 AND 20, DUCHESNE COUNTY, UTAH

Ву:

Shari Maria Silverman

Prepared For:

Bureau fo Land Management Vernal Field Office

Prepared Under Contract With:

Newfield Exploration Company Rt. 3 Box 3630 Myton, UT 84052

Prepared By:

Montgomery Archaeological Consultants, Inc. P.O. Box 147 Moab, Utah 84532

MOAC Report No. 05-225

July 13, 2005

United States Department of Interior (FLPMA)
Permit No. 05-UT-60122

State of Utah Antiquities Project (Survey) Permit No. U-05-MQ-0668b

Page 2 f 2

#### NEWFIELD PRODUCTION COMPANY

# PALEONTOLOGICAL FIELD SURVEY OF PROPOSED PRODUCTION DEVELOPMENT AREAS, DUCHESNE COUNTY, UTAH

Section 8, T 9 S, R 16 E [SW 1/4 & SE 1/4, NE 1/4; and SE 1/4]; Section 17, T 9 S, R 16 E [NE 1/4; NE 1/4, NW 1/4 & SW 1/4, SE 1/4; NE 1/4, NW 1/4, & SW 1/4, SW 1/4]; Section 19, T 9 S, R 16 E [entire section]; Section 20, T 9 S, R 16 E [excluding NW 1/4, NE 1/4; and NW 1/4 & SE 1/4, NW 1/4]; Section 21, T 9 S, R 16 E [excluding NE 1/4 & NW 1/4, NE 1/4]

#### REPORT OF SURVEY

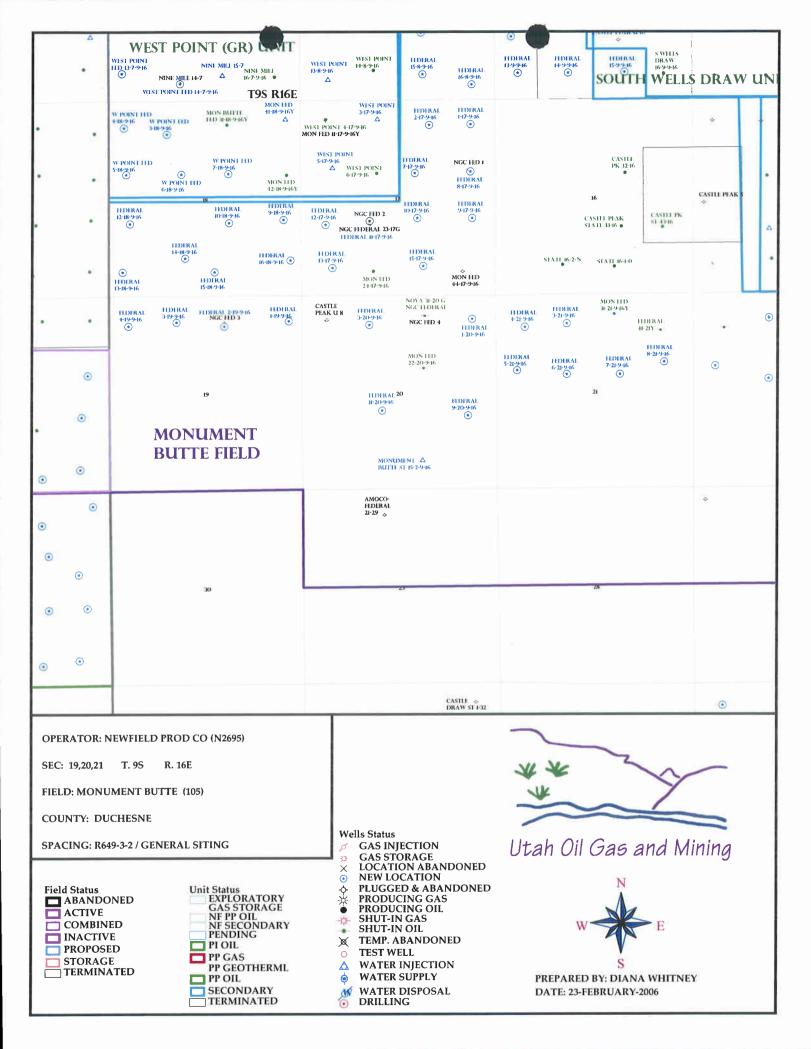
Prepared for:

**Newfield Production Company** 

Prepared by:

Wade E. Miller Consulting Paleontologist November 10, 2005

APD RECEIVED: 02/21/2006	API NO. ASSIGNED: 43-013-33066						
WELL NAME: FEDERAL 1-20-9-16  OPERATOR: NEWFIELD PRODUCTION ( N2695 )  CONTACT: MANDIE CROZIER	PHONE NUMBER: 435-646-3721						
PROPOSED LOCATION: NENE 20 090S 160E	INSPECT LOCATN BY: / / Tech Review Initials Date						
SURFACE: 0617 FNL 0652 FEL BOTTOM: 0617 FNL 0652 FEL	Engineering Engineering						
COUNTY: DUCHESNE LATITUDE: 40.02189 LONGITUDE: -110.1354	Geology						
UTM SURF EASTINGS: 573779 NORTHINGS: 44303 FIELD NAME: MONUMENT BUTTE ( 105							
LEASE TYPE: 1 - Federal  LEASE NUMBER: UTU-52018  SURFACE OWNER: 1 - Federal	PROPOSED FORMATION: GRRV COALBED METHANE WELL? NO						
Plat  Bond: Fed[1] Ind[] Sta[] Fee[]  (No. UTB000192 )  Potash (Y/N)  N Oil Shale 190-5 (B) or 190-3 or 190-13  Water Permit  (No. MUNICIPAL )  RDCC Review (Y/N)  (Date: )  NA Fee Surf Agreement (Y/N)  NA Intent to Commingle (Y/N)	LOCATION AND SITING: R649-2-3.  Unit:R649-3-2. General						
Sop, Sexuals file  Stipulations:  1- Federal Approval  20 Spacing Ship							
94.]	<u> </u>						





#### State of Utah

#### Department of Natural Resources

MICHAEL R. STYLER Executive Director

## Division of Oil, Gas & Mining

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR.

Governor

GARY R. HERBERT Lieutenant Governor

February 23, 2006

Newfield Production Company Rt. #3, Box 3630 Myton, UT 84052

Re: Federal 1-20-9-16 Well, 617' FNL, 652' FEL, NE NE, Sec. 20, T. 9 South, R. 16 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33066.

Sincerely,

Gil Hunt

Associate Director

Silzh

pab Enclosures

cc: Duchesne County Assessor

Bureau of Land Management, Vernal District Office

<b>Operator:</b>	Newfield Production Company				
Well Name & Number	Federal 1-20-9-16				
API Number:	43-013-				
Lease:	UTU-52				
Location: <u>NE NE</u>	Sec20_	T. 9 South	R. 16 East		

#### **Conditions of Approval**

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

**FORM 3160-5** (June 1990)

### **UNITED STATES** DEPARTMENT OF THE INTERIOR

**BUREAU OF LAND MANAGEMENT** 

FORM APPROVED Budget Bureau No. 1004-0135

		apnes.	141010	,	.,,,	
•	T 0000	Design		~~d C	amial l	NI~
J.	Lease	Design	Iauon	anu o	CILAL	WU

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  Use "APPLICATION FOR PERMIT -" for such proposals	6. If Indian, Allottee or Tribe Name	
	NA NA	
SUBMIT IN TRIPLICATE	7. If Unit or CA, Agreement Designation N/A	
1. Type of Well  Oil Well  Gas Well  Other	8. Well Name and No.  FEDERAL 1-20-9-16  9. API Well No.	
2. Name of Operator NEWFIELD PRODUCTION COMPANY	43-013-33066  10. Field and Pool, or Exploratory Area	
3. Address and Telephone No.  Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721	MONUMENT BUTTE  11. County or Parish, State	
4. Location of Well (Footage, Sec., T., R., m., or Survey Description) 617 FNL 652 FEL NE/NE Section 20, T9S R16E	DUCHESNE COUNTY, UT.	
12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT TYPE OF SUBMISSION TYPE OF	ORT, OR OTHER DATA	
X Notice of Intent  Subsequent Report  Final Abandonment Notice  Abandonment Recompletion Plugging Back Casing Repair Altering Casing X Other Permit Extension	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*		

approval date was 2/23/06 (expiration 2/23/07).

This APD has not been approved yet by the BLM.

Approved by the Utah Division of Oil, Gas and Mining

//				
4. I hereby certify that the foregoing is true and correct Signed Mandie Crozier	7Title	Regulatory Specialist	Date	2/2/2007
CC: UTAH DOGM				
(This space for Federal or State office use)				
Approved by	Title		Date	
Conditions of approval, if any:				
CC: Utah DOGM				

#### Application for Permit to Drill Request for Permit Extension Validation

## (this form should accompany the Sundry Notice requesting permit extension)

API: 43-013-33066  Well Name: Federal 1-20-9-16  Location: NE/NE Section 20,T9S R16E					
Company Permit Issued to: Newfield Production Company Date Original Permit Issued: 2/23/2006					
The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.					
Following is a checklist of some items related to the application, which should be verified.					
If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes□No□ ⚠					
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes□No☑					
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes□No☑					
Have there been any changes to the access route including ownership, or right- of-way, which could affect the proposed location? Yes□No ☑					
Has the approved source of water for drilling changed? Yes□ No ☑					
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes□No☑					
s bonding still in place, which covers this proposed well? Yes ☑ No □					
Wandi Cropin 2/2/2007					
Signature Date					
Title: Regulatory Specialist					
Representing: Newfield Production Company					

FEB 2 1 2006

Form 3160-3

#### OMB No. 1004-0136 Expires January 31, 2004 (September 2001) UNITED STATES 5. Lease Serial No. DEPARTMENT OF THE INTERIOR UTU-52018 BUREAU OF LAND MANAGEMENT 6. If Indian, Allottee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER N/A 7. If Unit or CA Agreement, Name and No. la. Type of Work: 🔟 DRILL 8. Lease Name and Well No. Oil Well Gas Well Gother Single Zone Multiple Zone 1b. Type of Well: Federal 1-20-9-16 Name of Operator 9. API Well No. **Newfield Production Company** 43-013-33066 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 3a. Address (435) 646-3721 Monument Butte Route #3 Box 3630, Myton UT 84052 11. Sec., T., R., M., or Blk. and Survey or Area Location of Well (Report location clearly and in accordance with any State requirements.\*) At surface NE/NE 617' FNL 652' FEL NE/NE Sec. 20, T9S R16E At proposed prod. zone 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office\* Duchesne UT Approximatley 15.2 miles southwest of Myton, Utah 17. Spacing Unit dedicated to this well 16. No. of Acres in lease 15. Distance from proposed\* location to nearest property or lease line, ft. 40 Acres 640.00 Approx. 652' f/lse, NA' f/unit (Also to nearest drig. unit line, if any) 20. BLM/BIA Bond No. on file 19. Proposed Depth 18. Distance from proposed location\* to nearest well, drilling, completed, Approx. 1369' UTR000192 applied for, on this lease, ft. 6040' Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start\* 23. Estimated duration 2nd Quarter 2006 Approximately seven (7) days from spud to rig release 6038' GL 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form: 4. Bond to cover the operations unless covered by an existing bond on file (see 1. Well plat certified by a registered surveyor. Item 20 above). 2. A Drilling Plan. Operator certification. 3. A Surface Use Plan (if the location is on National Forest System Lands, the Such other site specific information and/or plans as may be required by the SUPO shall be filed with the appropriate Forest Service Office). authorized officer. Name (Printed/Typed) 25. Signature Mandie Crozier 2/17/06 Title Regulatory Specialist Date Approved by (Signature) Name (Printed/Typed) JERRY Int Field Manager Office

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct Conditions of approval, if any, are attached.

**VERNAL FIELD OFFICE** 

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*distructions on reversel

Lánds & Mineral Resources

RECEIVED FEB 1 3 2007

NOTICE OF APPROVAL

FORM APPROVED

DIV. OF OIL, GAS & MINING



Title

NO NOS

178M4687A



#### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

VERNAL FIELD OFFIC VERNAL, UT 84078

(435) 781-4400



#### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Newfield Production Company Location: NENE, Sec 20, T9S, R16E

Well No: Federal 1-20-9-16 Lease No: UTU-52018

API No: 43-013-33066 Agreement: N/A

**170 South 500 East** 

Petroleum Engineer:	Matt Baker	Office: 435-781-4490	Cell: 435-828-4470
Petroleum Engineer:	Michael Lee	Office: 435-781-4432	Cell: 435-828-7875
Petroleum Engineer:	Jim Ashley	Office: 435-781-4470	Cell: 435-828-7874
Petroleum Engineer:	Ryan Angus	Office: 435-781-4430	
Supervisory Petroleum Technician:	Jamie Sparger	Office: 435-781-4502	Cell: 435-828-3913
Environmental Scientist:	Paul Buhler	Office: 435-781-4475	Cell: 435-828-4029
Environmental Scientist:	Karl Wright	Office: 435-781-4484	
Natural Resource Specialist:	Holly Villa	Office: 435-781-4404	
Natural Resource Specialist:	Melissa Hawk	Office: 435-781-4476	
Natural Resource Specialist:	Chuck Macdonald	Office: 435-781-4441	
Natural Resource Specialist:	Darren Williams	Office: 435-781-4447	
Natural Resource Specialist:	Verlyn Pindell	Office: 435-781-3402	
After Hours Contact Number: 435-781-4513		Fax: 435-781-4410	

## A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a one-year period. An additional year extension may be applied for by sundry notice prior to expiration.

#### NOTIFICATION REQUIREMENTS

Location Construction (Notify Chuck Macdonald)

Forty-Eight (48) hours prior to construction of location and access roads.

Location Completion (Notify Chuck Macdonald)

Prior to moving on the drilling rig.

Spud Notice

- Twenty-Four (24) hours prior to spudding the well.

(Notify Petroleum Engineer)

Casing String & Cementing (Notify Jamie Sparger)

Twenty-Four (24) hours prior to running casing and cementing all casing strings.

BOP & Related Equipment Tests (Notify Jamie Sparger)

Twenty-Four (24) hours prior to initiating pressure tests.

First Production Notice (Notify Petroleum Engineer)

 Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.



COAs: Page 2 of 8 Well: Federal 1-20-9-16

#### SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### LEASE STIPULATIONS

• Lands in this lease have been identified as containing Golden eagle habitat. Modifications to the Surface Use Plan of Operations may be required in order to protect the Golden eagle and/or habitat from surface disturbing activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.

#### GENERAL CONDITIONS OF APPROVAL

- This well is being approved in accordance with Washington Instruction Memorandum 2005-247 and Section 390 (Category 3) of the Energy Policy Act which establishes statutory categorical exclusions (CX) under the National Environmental Policy Act (NEPA). Category 3 states that an oil or gas well can be drilled within a developed field for which an approved land use plan or any environmental document prepared pursuant to NEPA analyzed drilling as a reasonably foreseeable activity, so long as such plan or document was approved within five (5) years prior to the date of spudding the well. This well is covered under the *Final Environmental Impact Statement and Record of Decision Castle Peak and Eightmile Flat Oil and Gas Exploration Project Newfield Rocky Mountains Inc.*, signed August 24, 2005. If the well has not been spudded by August 24, 2010, a new environmental document will have to be prepared prior to the approval of the APD.
- All applicable local, state, and/or federal laws, regulations, and/or statutes will be complied with.
- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- No vehicle travel, construction or routine maintenance activities shall be performed during
  periods when the soil is too wet to adequately support vehicles and/or construction equipment. If
  such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to
  adequately support construction equipment.
- The access road will be crowned and ditched. Flat-bladed roads are not allowed.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- The reserve pit will be lined with a 12 ml or greater liner and felt prior to spudding.

COAs: Page 3 of 8 Well: Federal 1-20-9-16

- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- If paleontologic or cultural materials are uncovered during construction, the operator shall immediately stop work that might further disturb or move such materials and contact the Authorized Officer (AO) within 48 hours. A determination will be made by the AO as to necessary mitigation for the discovered paleontologic/cultural material.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- The interim seed mix for this location shall be:

Indian Ricegrass (Oryzopsis hymenoides) 4 lbs/acre Needle and Threadgrass (Stipa comata): 4 lbs/acre Scarlet Globemallow (Sphaeralcea coccinea): 1 lb/acre Winter Fat (Ceratoides lanata) 3 lbs/acre

- All pounds are in pure live seed.
- Rates are set for drill seeding; double the rate if broadcasting.
- Reseeding may be required if initial seeding is not successful.
- The operator will be responsible for treatment and control of invasive and noxious weeds.
- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded in the same manner as the location topsoil.
- Once the location is plugged and abandoned, it shall be recontoured to natural topology, topsoil shall be respread, and the entire location shall be seeded with a seed mix recommended by the AO (preferably of native origin). Seed application will follow all guidelines in the interim seed mix bullet statement above. If reclamation seeding should take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer immediately after the seeding is completed.
- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.

COAs: Page 4 of 8 Well: Federal 1-20-9-16

- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.
- Operator shall notify any active gilsonite mining operation within 2 miles of the location 48 hours prior to any blasting during construction for this well.

COAs: Page 5 of 8 Well: Federal 1-20-9-16

#### DOWNHOLE CONDITIONS OF APPROVAL

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL

- 1. A variance is granted for O.O. #2 III. E. 1.
  - a. The blooie line shall be straight or have targeted tees for bends in the line.
  - b. Not requiring an automatic igniter or continuous pilot on the blooie line.
- 2. Run a cement bond log from TD to the base of the surface casing shoe.

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- 1. There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well. Any changes in operation must have prior approval from the BLM, Vernal Field Office Petroleum Engineers.
- 2. The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- 3. <u>Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.</u>
- 4. Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.

All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.

BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

No aggressive/fresh hard-banded drill pipe shall be used within casing.

Cement baskets shall not be run on surface casing.

COAs: Page 6 of 8 Well: Federal 1-20-9-16

5. The lessee/operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled and analyzed (a copy of the analyses to be submitted to the BLM Field Office in Vernal, Utah).

- 6. All oil and gas shows shall be adequately tested for commercial possibilities, reported, and protected.
- 7. The lessee/operator must report encounters of all non oil and gas mineral resources (such as gilsonite, tar sands, oil shale, etc.) to the Vernal Field Office in writing within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- 8. No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM, Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM, Vernal Field Office shall be obtained and notification given before resumption of operations.
- 9. Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

Any change in the program shall be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) shall be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.

In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

10. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys,

COAs: Page 7 of 8 Well: Federal 1-20-9-16

sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.

11. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease shall have prior written approval from the BLM, Vernal Field Office.

All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.

- 12. Oil and gas meters shall be calibrated in place prior to any deliveries. The Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM, Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement.
- 13. A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM, Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- 14. This APD is approved subject to the requirement that, should the well be successfully completed for production, the BLM, Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - a. Operator name, address, and telephone number.
  - b. Well name and number.
  - c. Well location (1/41/4, Sec., Twn, Rng, and P.M.).
  - d. Date well was placed in a producing status (date of first production for which royalty will be paid).
  - e. The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).

COAs: Page 8 of 8 Well: Federal 1-20-9-16

f. The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.

- g. Unit agreement and / or participating area name and number, if applicable.
- h. Communitization agreement number, if applicable.
- 15. Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.
- 16. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production
- 17. Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- 18. Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

FORM 3160-5 (September 2001)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM A	PPROVED
OMB No.	1004-0135
Expires Ian	nary 31 200

5. Lease Serial No.

Do not use this form for proposals to drill or to re-enter an						USA UTU-52018		
	rell. Use Form 3160-3 (APD) 1				6. If Indian, A	6. If Indian, Allottee or Tribe Name.		
Type of Well	Rashing villy Companient	ingi kanang Lipingan	erse sidi		7. If Unit or C	CA/Agreement, Name and/or		
	Other				8. Well Name	and No		
2. Name of Operator						L 1-20-9-16		
NEWFIELD PRODUCTION CO	OMPANY				9. API Well N			
3a. Address Route 3 Box 3630	3b.	Phone (in	clude are c	ode)	4301333066			
Myton, UT 84052		435.646.3721			10. Field and	Pool, or Exploratory Area		
4. Location of Well (Footage, 617 FNL 652 FEL	Sec., T., R., M., or Survey Description,	)			MONUMEI 11. County or			
NENE Section 20 T9S R16E					DUCHESN	E, UT		
12. CHECK	APPROPRIATE BOX(ES) T	O INIDICA	TE NAT	URE O	F NOTICE, OR	OTHER DATA		
TYPE OF SUBMISSION			TYPE (	OF ACT	ION			
□ Notice of Intent □ Subsequent Report □ Final Abandonment	Acidize Alter Casing Casing Repair Change Plans	Deepen Fracture Trea New Construc Plug & Aband	ction	Recl Recc Tem	luction(Start/Resume amation omplete porarily Abandon	Water Shut-Off Well Integrity Other Spud Notice		
☐ Final Abandonment	Convert to	Plug Back		Wate	er Disposal			
	S #1.Spud well @ 12:30pm. Di cement with 160 sks of class ' ement to pit. WOC.							
hereby certify that the foregoing is correct (Printed/ Typed)	true and	Title			<del></del>			
Don Bastian Drilling Foreman								
Date 05/20/2007								
	AUTHOSPACIE CORTO	adurang	)RESTIAVI	10 (0) [1	(CEUSE ()	(1) ************************************		
Annroyed by		,	Title		],	Date		
	d. Approval of this notice does not warrant uitable title to those rights in the subject leasured operations thereon.		Office		U	V415		
						Cal Train		

(Instructions on reverse)

States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

MAY 2 2 2007

#### **NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT**

			8 5/8	CASING SET	TAT	324.21			
LAST CASING <u>8 5/8"</u> SET AT 324.21'				<del></del>	OPERATOR	₹	NewField	Production	Company
DATUM	12' KB				WELL		Federal 1-	20-9-16	
DATUM TO	CUT OFF C	ASING _			FIELD/PRO	SPECT _	Monumen	t Butte	
DATUM TO	BRADENHE	AD FLANGE			CONTRACT	FOR & RIG#		NDSI NS#	1
TD DRILLER	320'	LOGGI	ER						
HOLE SIZE	12 1/4	<u> </u>							
LOG OF CA	SING STRIN	IG:							
PIECES	OD	ITEM -	MAKE - DESCI	RIPTION	WT/FT	GRD	THREAD	CONDT	LENGTH
		ļ			<u> </u>				
		·	Joint 44.70'						
	<u> </u>	WHI - 92 cs	•				8rd	A	0.95
7	8 5/8"	Maverick ST			24#	J-55	8rd	<u>A</u>	312.36
	<u> </u>	<u> </u>		shoe			8rd	Α	0.9
CASING INV	ENTORY B	AL.	FEET	JTS	1	IGTH OF ST	RING		314.21
TOTAL LEN			314.21		LESS CUT OFF PIECE				2
LESS NON			1.85		PLUS DATUM TO T/CUT OFF CSG 12				
PLUS FULL	JTS. LEFT C	DUT	0		CASING SET DEPTH 324.2				
·	TOTAL		312.36		41				
TOTAL CSG	. DEL. (W/O	THRDS)	312.36	7	COMPAR	RE			
TIMING			1ST STAGE						
BEGIN RUN		Spud	5/16/2007		GOOD CIRC				
CSG. IN HO			5/17/2007		Bbls CMT C				
BEGIN CIRC			5/20/2007	9:23 AM	JRECIPROCA	ATED PIPE F	-		FT STROKE
BEGIN PUM			5/20/2007	9:35 AM	-		_	N/A	
BEGIN DSPI			5/20/2007		BUMPED PI	LUG TO		140	PSI
PLUG DOWI		<u> </u>	5/20/2007	10:07 AM		n 1			
CEMENT US				CEMENT CO		B. J.			
STAGE	# SX			CEMENT TYP			47 (/ ) : 1		
1	160	Class "G" w/	2% CaCL2 + 1	I/4#/sk Cello-F	-lake mixed @	y 15.8 ppg 1.	17 ct/sk yield	<u> </u>	
-									
		<u> </u>				0.10.4.444			
		TCHER PLAC		2		SHOW MAK	E & SPACIN	ان ا	
entralizers	- Middle fil	st, top seco	nd & third for	3					
						<del></del>			
				·		<u> </u>	<del></del>		

COMPANY REPRESENTATIVE	Don Bastian	DATE	5/20/2007	

ADDRESS: RT. 3 BOX 3636 MYTON, UT 84052

OPERATOR: NEWFIELD PRODUCTION COMPANY

OPERATOR ACCT. NO.

N2695

April 18, 2007

				WELL NAVE	WELL LOCATION				SPUC)	EFFECTIVE	
ACTION	CURRENT	NEW	API NUMBER	WELL NAME	QQ	SC	TP	RG	COUNTY	DATE	DATE
A	99999	16/37	4301333066	FEDERAL 1-20-9-16	NENW	20	98	16E	DUCHESNE	5/17/2007	5/30/07
WEA 100	CALIFORNIES G	erv									
tomost	CURPLENT	NEW	API MUNIBER	WELL KAME			LLLOCATI		COUNTY	SPUD DATE	EFFECTIVE DATE
ACTIONS CODE	ENTITY NO.	ENTITY NO.		Sundance	00	SC.	TP	RG	COORTY	DATE	1 / /
В	99999	14844	4304738193	FEDERAL 14-1-9-17	NENW	12	·		DUCHESNE	5/18/2007	5/30/07
	GR	RN			BHL	_ =	SE	SW	SEC 1		
ACTION	CURRENT	NEW	API NUMBER	WELL NAME		1	_	OCATION RG	COUNTY	SPUD DATE	EFFECTIVE
CODE	ENTITY NO.	ENTITY NO.			- 00	ac ac	TP	RO	COUNT		-10 100
A	99999	16138	4301332921	FEDERAL 10-18-9-16	NWSE	18	98	16E	DUCHESNE	5/18/2007	3/30/01
GRRU											
ACTION	CURRENT	NEW	API NUMBER	WELL NAME		-	WEET I	JOCATION RG	COUNTY	SPUD DATE	EFFECTIVE. DATE
DODE	ERRITY NO.	ENTITY NO.	4301333136	FEDERAL 13-15-9-16	SWSW	1 15	95		DUCHESNE		5/30/01
<u> </u>	99999		4301333130	FEDERAL 10-10 10	1 0	-1				<u> </u>	
	$G_{\mathcal{R}}$	RV									
		•	API NUMBER	WELLNAME			WELL	LOCATION		SPUD	EFFECTIVE
ACTION	CURRENT ENTITY NO.	ENTITY NO.	API NUMBER		00	80	TP	RG	COUNTY	DATE	DATE /
В	99999	12418	4301332919	FEDERAL 7-18-9-16	SWN	E 18	98	16E	DUCHESNE	5/22/2007	5/30/07
WELL SCOMMENTS: GREW West Point											
1		1 150	API NUMBER	WELL NAME				LOCATIO		SPUD.	EFFECTIVE
ACTIO		ENTITY NO.	/# · · · · · · · · · · · · · · · · · · ·		00_	80	TP	RG	COUKTY	DATE	DATE
A	99999	16140	4301333164	FEDERAL 15-21-9-16	SWS	E 21	95	16E	DUCHESNE	5/16/2007	15/30/07
WELLS COMMENTS: GREV											
	ACTION CODES (See instructions on back of form)  A- new entity for new unit (single self only)  Received					/// Jentri Pr					
	B wall to existing critic (group or arit wer)  KEUEIVEU							Rimature			

C - Yorn one existing entity to another existing entity D - well from one unisting entity to a new entity

E - that (explain in commants section)

MAY 2 3 2007

### **DIVISION OF OIL, GAS AND MINING**

### **SPUDDING INFORMATION**

Name of Company: Newfield P	roduction Con	<u>npany</u>		
Well Name: Federal 1-20-9-16				
API No: 43-013-33066	Le	ase Type:	: <u>Federal</u>	
Section 20 Township 09S	Range 16E	_County_]	Duchesne	
Drilling Contractor NDSI			Rig #_ <b>NS#1</b>	
SPUDDED:  Date <u>5-16-07</u> Time <u>12:30 PM</u>		-		
How <u>Dry</u> Drilling will Commence:		-		
Reported by Troy Zufeit				
Telephone #435-823-6013				
Date <u>5-18-07</u>		Signed_	RM	

FORM 3160-5 (September 2001)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals

FORM	/ Al	PPR	οv	ED
OMB	No.	100	4-0	135
Evoime	Inn.		21	200

5. Lease Serial No.

	<b>USA UT</b>	J-52018			
Ξ.	If Indian	Allottee o	r Tribe	Name	

abandoned well. Use Form 3160-3 (APD) for such proposals.					ec of Tribe Name.
1. Type of Well	(CALLES OF COMES AND		Nivita	7. If Unit or CA/A	Agreement, Name and/or
Oil Well Gas Well		8. Well Name and	l No.		
2. Name of Operator	ON AD A NIV			FEDERAL 1-	20-9-16
NEWFIELD PRODUCTION CO 3a. Address Route 3 Box 3630	JMPANY	3b. Phone (include a	re code)	9. API Well No. 4301333066	
Myton, UT 84052		435.646.3721			l, or Exploratory Area
	Sec., T., R., M., or Survey Descrip	tion)	•	MONUMENT	BUTTE
617 FNL 652 FEL				11. County or Par	ish, State
NENE Section 20 T9S R16E				DUCHESNE, U	JT
12. CHECK	APPROPRIATE BOX(ES	S) TO INIDICATE N	ATURE OF N	OTICE, OR OT	HER DATA
TYPE OF SUBMISSION		TY	PE OF ACTION		
□ Notice of Intent □ Subsequent Report □ Final Abandonment	Acidize Alter Casing Casing Repair Change Plans Convert to	☐ Deepen ☐ Fracture Treat ☐ New Construction ☐ Plug & Abandon ☐ Plug Back	Reclamat	ete rily Abandon	■ Water Shut-Off ■ Well Integrity ■ Other ■ Weekly Status Report
8.625 csgn to 1,500 psi. \ out cement & shoe. Drill a  Dig/SP/GR log's TD to su  KB. Cement with 325 sks	on # 155. Set all equipmen /ernal BLM field, & Roosev a 7.875 hole with fresh wate rface. PU & TIH with Guide cement mixed @ 11.0 ppg pit. Nipple down Bop's. Dro	elt DOGM office was or to a depth of 6050'. shoe, shoe jt, float co & 3.43 yld. The 425 s	notifed of test. Lay down drill ollar, 136 jt's of sks cement mix	PU BHA and tag string & BHA. O 5.5 J-55, 15.5# ed @ 14.4 ppg	g cement @ 277'. Drill pen hole log w/ csgn. Set @ 6029.08 / & 1.24 yld. Returned 13
				RECE	IVED
				JUL 0	3 2007
				DIV. OF OIL, G	GAS & MINING
I hereby certify that the foregoing is correct (Printed/ Typed)  Don Bastian	true and	Title Drilling Foren	nan		
Signature Don Bos	tion	Date 06/30/2007			
	maga Martan (deno)	MANUFACTURE PROCESS	eva duas		
Approved by		Title		Date	<b>:</b> .
Conditions of approval, if any, are attache certify that the applicant holds legal or equivalent would entitle the applicant to conductive the applicant to conduct the applicant to conduct the applicant to conduct the applicant to conduct the applicant to conduct the applicant to conduct the applicant to conduct the applicant to conduct the applicant to conduct the applicant to conduct the applicant to conduct the applicant to conduct the applicant to conduct the applicant to conduct the applicant to conduct the applicant the applicant the applicant the applicant the applicant the applicant to conduct the applicant the appli	uitable title to those rights in the subject	arrant or			
Title 18 U.S.C. Section 1001 and Title 43	U.S.C. Section 1212 make it a crime	for any nerson knowingly and	willfully to make to	ny department or non	now of the United

States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

#### NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

			5 1/2"	CASING SET	AT	6029.08	,		
					Flt cllr @	6002.84			
LAST CASI	NG <u>8 5/8"</u>	SET	F 323. <u>65'</u>		OPERATOR	₹	Newfield F	roduction	Company
DATUM _	12' KB				WELL	Federal 1-	20-9-16		
DATUM TO	CUT OFF C	ASING _	12'		FIELD/PRO	SPECT _	Monumen	t Butte	
DATUM TO	BRADENHE	AD FLANGE	<u></u>		CONTRACT	FOR & RIG#		Patterson :	#155
TD DRILLER	6040	Loggers							-
HOLE SIZE	7 7/8"						•		
LOG OF CA	SING STRIN	IG:							
PIECES	OD	ITEM -	MAKE - DESC	RIPTION	WT/FT	GRD	THREAD	CONDT	LENGTH
	<u> </u>	Landing Jt							14
		Short jt	4301' (5.85')	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·	
136	5 1/2"	ETC LT & C	casing		15.5#	J-55	8rd	Α	5990.83
		Float collar							0.6
1	5 1/2"	ETC LT&C	csg		15.5#	J-55	8rd	Α	25
			GUIDE	shoe			8rd	Α	0.65
CASING INV	/ENTORY B	AL.	FEET	JTS	TOTAL LEN	GTH OF ST	RINĠ		6031.08
TOTAL LEN	GTH OF ST	RING	6031.08	143	LESS CUT OFF PIECE				. 14
LESS NON	CSG. ITEMS		15.25		PLUS DATU	IM TO T/CUT	OFF CSG		12
PLUS FULL	JTS. LEFT (	DUT	243.17	6	CASING SE	T DEPTH			6029.08
	TOTAL		6259.00	143	l٦				
TOTAL CSG	. DEL. (W/O	THRDS)	6259	143	COMPARE				
TIMING			1ST STAGE	2nd STAGE					
BEGIN RUN	CSG.		2:00AM	6/30/2007	GOOD CIRC THRU JOB YES				
CSG. IN HO	LE		6:30 AM	6/30/2007	Bbls CMT CIRC TO SURFACE 13				
BEGIN CIRC	;		6:30 AM	6/30/2007	RECIPROCATED PIPE FORTHRUSTROKE NA				
BEGIN PUM	P CMT		8:18 AM	6/30/2007	DID BACK P	PRES. VALVE	HOLD?	YES	
BEGIN DSPI	L. CMT		9:19 AM	6/30/2007	BUMPED PL	.UG TO		1450	PSI
PLUG DOW	N		9:42 AM	6/30/2007					
CEMENT US	ED			CEMENT CO	/IPANY-	B. J.			
STAGE	# SX			CEMENT TYP	E & ADDITIV	/ES			
1	325	Premlite II w	/ 10% gel + 3 9	% KCL, 3#'s /sl	CSE + 2# sl	k/kolseal + 1/	2#'s/sk Cello	Flake	
		mixed @ 11	.0 ppg W / 3.49	cf/sk yield					
2	425	50/50 poz W	// 2% Gel + 3%	KCL, .5%EC1	,1/4# sk C.F.	2% gel. 3% s	SM mixed @	14.4 ppg W/	1.24 YLD
CENTRALIZI	ER & SCRA	TCHER PLAC	CEMENT			SHOW MAK	E & SPACIN	G	
Centralizers	- Middle fi	st, top seco	ond & third. Th	en every thire	d collar for a	total of 20.			
								<del></del>	
COMPANY F	REPRESENT	ATIVE	Don Bastian				DATE	6/30/2007	

FORM 3160-5 (September 2001)

1. Type of Well

2. Name of Operator

4. Location of Well

617 FNL 652 FEL

Oil Well Gas Well

3a. Address Route 3 Box 3630

NENE Section 20 T9S R16E

NEWFIELD PRODUCTION COMPANY

Myton, UT 84052

Other

(Footage, Sec., T., R., M., or Survey Description)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM A	PPROVED
OMB No.	1004-013
Expires Jan	uary 31,200

USA UTU-52018 If Indian, Allottee or Tribe Name. SUBMIT IN TRIPLICATE - Other Instructions on reverse side 7. If Unit or CA/Agreement, Name and/or 8. Well Name and No. FEDERAL 1-20-9-16 9. API Well No. 4301333066 Field and Pool, or Exploratory Area MONUMENT BUTTE 11. County or Parish, State DUCHESNE LIT

			1 DOCTIESTIE,	··
12. CHEC	K APPROPRIATE BO	X(ES) TO INIDICATE N	ATURE OF NOTICE, OR O	THER DATA
TYPE OF SUBMISSION	YPE OF SUBMISSION TYPE OF ACTION			
✓ Notice of Intent  ☐ Subsequent Report  ☐ Final Abandonment	Acidize Alter Casing Casing Repair Change Plans Convert to	Deepen Fracture Treat New Construction Plug & Abandon Plug Back	Production(Start/Resume) Reclamation Recomplete Temporarily Abandon Water Disposal	Water Shut-Off Well Integrity Other

(include are code)

3b Phone

proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

> Accepted by the Utah Division of Oil. Gas and Mining FOR RECORD ONLY

I hereby certify that the foregoing is true and	Title				
correct (Printed/ Typed) Mandie Croxics	Regulatory Specialist				
Signature Continue Crown	Date 07/30/2007				
THIS SPACE FOR	FEDERAL (	OR STATE OFF	ICE USE		
Approved by		Title	Date		
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for	any person knowir	ngly and willfully to mak	e to any department or agenc	v pr the Umted	

(Instructions on reverse)

States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

AUG 0 2 2007

### STATE OF UTAH

	DEPARTMENT OF NATURAL RE		
	5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-52018		
SUNDRY	NOTICES AND REPO	RTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to dr	ill new wells, significantly deepen existing wells belt al laterals. Use APPLICATION FOR PERMIT TO	ow current bottom-hole depth, reenter plugged	7. UNIT or CA AGREEMENT NAME:
1 TWDE OF WELL.		DRIEE form for such proposais.	8. WELL NAME and NUMBER:
OIL WELL	GAS WELL OTHER		FEDERAL 1-20-9-16
2. NAME OF OPERATOR:			9. API NUMBER: 4301333066
NEWFIELD PRODUCTION CON  3. ADDRESS OF OPERATOR:	1PANY	PHONE NUMBER	10. FIELD AND POOL, OR WILDCAT:
	TY Myton STATE UT	ZIP 84052 435.646.3721	MONUMENT BUTTE
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 617 FNL 6	52 FEL		COUNTY: DUCHESNE
OTR/OTR. SECTION. TOWNSHIP. RANGE	MERIDIAN: NENE, 20, T9S, R16E		STATE: UT
11. CHECK APPRO	PRIATE BOXES TO INDICATE	NATURE OF NOTICE, REP	ORT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION
NOTICE OF INTENT (Submit in Duplicate)	☐ ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will	CASING REPAIR	■ NEW CONSTRUCTION	TEMPORARITLY ABANDON
	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR
	CHANGE TUBING	PLUG AND ABANDON	☐ VENT OR FLAIR
SUBSEQUENT REPORT	CHANGE WELL NAME	PLUGBACK	WATER DISPOSAL
(Submit Original Form Only)	CHANGE WELL STATUS	PRODUCTION (START/STOP)	WATER SHUT-OFF
Date of Work Completion:	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE	OTHER: - Weekly Status Report
07/31/2007	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION	ı
12 DESCRIBE PROPOSED OR CO	OMPLETED OPERATIONS. Clearly show a	Il pertinent details including dates, depths	, volumes, etc.
	is completed on 07/25/07, attached is		
1110 00010 000,001 11011 1101	,	• •	
NAME (PLEASE PRINT) Jentri Park	, 7	TITLE Production Clerk	
NAME (PLEASE FRINT) SOURT WITH	1.60 11/12		
SIGNATURE	Will let	DATE 07/31/2007	
			DECEIVED
(This space for State use only)			RECEIVED
			AUG 07 2007
			400 0 . Faa.

DIV. OF OIL, GAS & MINING

#### **Daily Activity Report**

Format For Sundry FEDERAL 1-20-9-16 5/1/2007 To 9/30/2007

7/11/2007 Day: 1

Completion

Rigless on 7/10/2007 - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5929' & cement top @ 60'. Perforate stage #1. CP1 sds @ 5526-44' w/ 3 1/8" Slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 72 shots. 143 BWTR. SIFN.

7/20/2007 Day: 2

Completion

Rigless on 7/19/2007 - NU BJ Services "Ram head" frac flange. RU BJ & frac stage #1 (CP1 sds) W/ 40,327# 20/40 sand in 416 bbls Lightning frac 17 fluid. Pumped 780 gals 4% Techni-Hib 767W "pre-pad" & fresh wtr spacer ahead of frac. Perfs broke down @ 2756 psi. Treated @ ave press of 2186 psi W/ ave rate of 24.7 BPM. Spotted 500 gals 15% HCL acid in flush to cover stage #2. ISIP--2165 psi. Leave pressure on well. Est 559 BWTR. RU Perforators WLT, crane & lubricater. Run Weatherford 5 1/2" composite flow-through frac plug & 14' X 3/18" slick perf gun. Set plug @ 5230'. Perf stage #2 (LODC sds) @ 5124-38' W/ 4 JSPF. All 1 run. RU BJ Services & frac stage #2 W/ 60,273# 20/40 sand in 510 bbls Lightning frac 17 fluid. Pumped 780 gals 4% Techni-Hib 767W "pre-pad" & fresh wtr spacer ahead of frac. Perfs broke down @ 3621 psi (on third attempt of pressuring against perfs). Treated @ ave press of 2674 psi W/ ave rate of 24.8 BPM. Spotted 500 gals 15% HCL acid in flush to cover stage #3. ISIP--2760 psi. Leave pressure on well. Est 1069 BWTR. RU Perforators WLT & run Weatherford 5 1/2" composite flow-through frac plug & 15' X 3/18" slick perf gun. Set plug @ 4900'. Perf stage #3 (C sds) @ 4780-95' W/ 4 JSPF. All 1 run. RU BJ Services & frac stage #3 W/ 60,060# 20/40 sand in 510 bbls Lightning frac 17 fluid. Pumped 780 gals 4% Techni-Hib 767W "pre-pad" & fresh wtr spacer ahead of frac. Perfs broke down @ 4170 psi (on sixth attempt of pressuring against perfs). Treated @ ave press of 1833 psi W/ ave rate of 24.8 BPM. Spotted 500 gals 15% HCL acid in flush to cover stage #4. ISIP--1800 psi. Leave pressure on well. Est 1579 BWTR. RU Perforators WLT & run Weatherford 5 1/2" composite flowthrough frac plug & 14' X 3/18" slick perf gun. Set plug @ 4740'. Perf stage #4 (D2 sds) @ 4680-94' W/ 4 JSPF. All 1 run. RU BJ Services to frac stage #4. Unable to breakdown perfs after several attempts W/ 4200 psi max. RU WLT & RIH W/ 3 1/2" dumpbailer W/8 gals 15% HCL acid. Tag sd @ 4661'. Dump acid & LD bailer. Flow well back on chokes for 2 1/2 hrs, rec est 150 BTF. Recovered acid & strung out sand. Flowing fairly clean @ end. Casing pressure @ 150 psi. RU BJ & breakdown D2 perfs @ 1889 psi. Frac stage #4 W/ 79,938# 20/40 sand in 623 bbls Lightning frac 17 fluid. Pumped 780 gals 4% Techni-Hib 767W "pre-pad" & fresh wtr spacer ahead of frac. Treated @ ave press of 1860 psi W/ ave rate of 24.8 BPM. Spotted 500 gals 15% HCL acid in flush to cover stage #5. ISIP--1960 psi. Leave pressure on well. Est 2052 BWTR. RU Perforators WLT & run Weatherford 5 1/2" composite flow-through frac plug & 7' X 3/18" slick perf gun. Set plug @ 4250'. Perf stage #5 (GB6 sds) @ 4160-67' W/ 4 JSPF. All 1 run. RU BJ Services to frac stage #5. Pressure against perfs to 4200 psi--holding solid. \*\*BJ Blender will not run !!\*\* Shut well in with pressure overnight. Est 2052 BWTR.

7/21/2007 Day: 3

Completion

NC #1 on 7/20/2007 - 2250 psi on well. RU BJ Services & breakdown stage #5 (GB6 sds) @ 4201 psi. Frac stage #5 W/ 28,569# 20/40 sand in 317 bbls Lightning frac 17 fluid. Treated @ ave press of 1594 psi W/ ave rate of 24.9 BPM. ISIP--1545 psi. RD BJ & WLT. Begin immediate flowback of frac on 12/64 choke @ 1 BPM. Zone flowed 2.5 hrs rec add'l 135 BTF (est 12% of combined frac load of 2376 bbls--includes 150 bbls f/ previous FB). MIRU NC #1. ND Cameron BOP & 5M frac head. Install 3M production tbg head & NU Weatherford Schaeffer BOP. Talley, PU & TIH W/ new Weatherford 4 3/4" "Chomp" bit, bit sub & new 2 7/8 8rd 6.5# J-55 tbg. Tag fill @ 4181'. Tbg displaced 10 BW on TIH. RU power swivel. C/O sd to composite plug @ 4250'. Drill out plug in 25 minutes. Circ hole clean W/ no fluid loss. Hang back swivel. SIFN W/ EOT @ 4313'. Est 2224 BWTR.

#### 7/24/2007 Day: 4

Completion

NC #1 on 7/23/2007 - 6:30 AM OWU, Swvl I/Hle To Plg @ 4740', Drill Up Plg, Swv I/Hle To Fill @ 4878', C/Out To Plg @ 4900', Drill Up Plg, Swvl I/Hle To Fill @ 5145', C/Out To Plg @ 5230', Drill Up Plg, Swvl I/Hle To Fill @ 5750', Drill & C/Out To PBTD @ 5957.82' KB, Curc Well Clean 1 Hr, R/D Swvl, POOH W/-5 Jts Tbg EOB @ 5819', R/U Swab, Made 15 Swab Runs, Recvred 177 Bbls Wtr, Lite Trce Sand, Lite Trce Oil, FFL @ 1600', SWI, 6:30PM C/SDFN, Lost 123 Bbls Wtr On Drill Out To PBTD, Recvred 177 Bbls Wtr Swabbing, Total Wtr Recvery For Day = 54 Bbls.

#### 7/25/2007 Day: 5

Completion

NC #1 on 7/24/2007 - 6:30 AM OWU, RIH W/-5 Jts Tbg To Fill @ 5952', R/U R/pmp & C/Out To PBTD @ 5957.82', Curc Well Clean, POOH W/-194 Jts Tbg, Bit Sub & Bit. P/U & RIH W/-Tbg Production Detail Shown Below. N/D BOP, Set 5 1/2 T/A In 15,000 Tension, N/U W/-HD. R/U R/pmp, Flsh Tbg W/-60 Bbls Wtr. P/U Stroke & RIH W/- CDI-2 1/2x1 1/2x16x20' RHAC, 6-1 1/2x25' Wt Bars, 20-3/4x25' Guided Rods, 50-3/4x25' Slick Rods, SWI, 6:30PM C/SDFN. Lost 87 Bbls Wtr On Curc Out To PBTD.

#### 7/26/2007 Day: 6

Completion

NC #1 on 7/25/2007 - 6:30 AM OWU, RIH 45-3/4X25' Slick Rods, 100-3/4X25' Guided Rods, 3/4X8'-6'-4'-2' Ponys, 1 1/2X26' Polish Rod, R/U Unit, R/U Rig Pump, Fill Tbg W/-1 Bbl Wtr, Stroke Unit & Tbg To 800 Psi, Good Test. R/D Eq, R/D Rig. POP @ 10:30AM, 120" SL, 5 SPM, (Final Report)

**Pertinent Files:** Go to File List

Title 18 U.S.C. Section 1001

SUBMIT IN DUPLICATE\* FORM APPROVED

(See other instructions ons reverse side) OMB NO. 1004-0137 Expires: February 28, 1995

# **UNITED STATES**

			D MANAGEME			J, LEASE DESIGNATION	J-52018
WELL COM			MPLETION		ND L OG*	6. IF INDIAN, ALLOTTES	E OR TRIBE NAME
	IFECTION	OK KEOO!	WII ELITOR	TEI OILI A		7. UNIT AGREEMENT N	NA
1a. TYPE OF WORK	OIL	GAS		Other			ederal
1b. TYPE OF WELL	OIL WELL	WEL WEL		Other			Jucial
_	_	_				8. FARM OR LEASE NAM	ME, WELL NO.
NEW X WORK						I 1-20-9-16	
2. NAME OF OPERATOR						9. WELL NO.	
3. ADDRESS AND TELEPHONE NO		wfield Explor	ation Company	<u> </u>		10. FIELD AND POOL OR	13-33066 R WILDCAT
3. ADDRESS AND TELEFHONE NO		St. Suite 100	00 Denver, CC	80202			nent Butte
4. LOCATION OF WELL (Repo	ort locations clearly a	nd in accordance wi	th any State requiremen	nts.*)		11. SEC., T., R., M., OR BI OR AREA	LOCK AND SURVEY
At Surface At top prod. Interval reported be		FINL & 032 FE	L (NE/NE) Sec. 2	b, 195, KTOL			T9S, R16E
At top prod. Interval reported be	low						
At total depth		14. API N		DATE ISSUED		12. COUNTY OR PARISH	l l
			3-013-33066		02/23/07 Df, RKB, RT, GR, E	Duchesne_	19. ELEV. CASINGHEAD
15. DATE SPUDDED 16. DATE 05/16/07	E T.D. REACHED 06/29/07		L. (Ready to prod.) 7/25/07		B' GL	6050' KB	19, ELEV. CASINGREAD
20. TOTAL DEPTH, MD & TVD		CK T.D., MD & TVD	22. IF MULTIPI	E COMPL.,	23. INTERVALS	ROTARY TOOLS	CABLE TOOLS
6050'		5958'	HOW MAN	Y*	DRILLED BY	X	
24. PRODUCING INTERVAL(S), OF	THIS COMPLETION-	<b>-</b>	E (MD AND TVD)*				25. WAS DIRECTIONAL
			n River 4160'	-5544'			SURVEY MADE
						1 -	No 27. WAS WELL CORED
Type electric and other Dual Induction Guard	LOGS RUN 1 SP Compe	ensated Dens	ity. Compensa	ted Neutron.	ي GR. Caliper	Cement Bond Log	No No
23.	2, 01 , 00mpc		SING RECORD (Rep			,	
CASING SIZE/GRADE	WEIGHT,		324'	HOLE SIZE 12-1/4"		MENT, CEMENTING RECORD with 160 sx Class "G" cmt	AMOUNT PULLED
8-5/8" - J-55 5-1/2" - J-55	24 15.		6029'	7-7/8"		lite II and 425 sx 50/50 Poz	
0 1/2 0 00	10.						
29.		ER RECORD			30.	TUBING RECORD	T over one over
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	2-7/8"	DEPTH SET (MD)  EOT @	PACKER SET (MD)
						5615	5518'
31. PERFORATION RECORD (Int	erval, size and number			32.		, FRACTURE, CEMENT SQUE	
INTERVA	<u>L</u> CP1) 5526'-5544	<u>SIZE</u> .49"	SPF/NUMBER 4/72		ERVAL (MD) '-5544'	AMOUNT AND KIND OF Frac w/ 40,327# 20/40 s	
· · · · · · · · · · · · · · · · · · ·	DC) 5124'-5138'	.43"	4/56		-5138'	Frac w/ 60,273# 20/40 s	
(20	(C) 4780'-4795'		4/60		-4795'	Frac w/ 60,060# 20/40 s	and in 510 bbls fluid
(	D2) 4680'-4694'	.43"	4/56		-4694'	Frac w/ 49,938# 20/40 s	and in 623 bbls fluid
(0	B6) 4160'-4167	.43"	4/28	4160'	-4167'	Frac w/ 28,569# 20/40 s	and in 317 bbls fluid
						RECEIVED	<del>)</del>
						AUG 1 4 2007	
33.*		<u> </u>	PRODU	CTION			
DATE FIRST PRODUCTION	PRODUCTIO	N METHOD (Flowing,	gas lift, pumpingsize and	type of pump)	Diverse Dive	DIV. OF OIL, GAS & AND A	
07/25/07 DATE OF TEST	HOURS TESTED	2-1/2" X	1-1/2" x 16' x 2	O' RHAU SIVI	GASMCF.	WATERBBL.	PRODUCING  IGAS-OIL RATIO
	nooks rested		TEST PERIOD				
10 day ave	GACRIC PRECLIP	E CALCULATED	OIL-BBL.	26 GASMCF.	0	WATERBBL. OIL GRAVI	O ITY-API (CORR.)
FLOW. TUBING PRESS.	CASING PRESSUR	24-HOUR RATE	OIL-BBL.	JASI-MCF.		, , , , , , , , , , , , , , , , , , , ,	
	<u></u>	>		<u> </u>			
34. DISPOSITION OF GAS (Sold, us	ed for fuel, vented, etc.)	Sold & Use	ed for Fuel			TEST WITNESSED BY	
35. LIST OF ATTACHMENTS	-	- CO.G & OOC					
f				<del></del>			
36. I hereby certify that the lores	going and attached in	formation is comple	te and correct as deterr	nined from all availab	ble records roduction Cl	ork	E 8/10/2007
SIGNED 1	MVVI	111	TITLE	Pi	oduction Cl	<b>erk</b> DATI	<u> </u>
Jentri Park		r					

\*(See Instructions and Spaces for Additional Data on Reverse Side)

and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and 38. GEOLOGIC MARKERS recoveries); DESCRIPTION, CONTENTS, ETC. TOP воттом FORMATION TOP TRUE NAME MEAS. DEPTH VERT. DEPTH Garden Gulch Mkr 3635' Well Name Federal 1-20-9-16 Garden Gulch 1 3833' Garden Gulch 2 3940' Point 3 Mkr 4186' X Mkr 4450' Y-Mkr 4482' Douglas Creek Mkr 4597' BiCarbonate Mkr 4834' B Limestone Mkr 4930' Castle Peak 5488' Basal Carbonate 5926' Total Depth (LOGGERS 6030'



April 30, 2012

Mr. Mark Reinbold State of Utah Division of Oil, Gas and Mining 1594 W North Temple Salt Lake City, Utah 84114-5801

RE:

Permit Application for Water Injection Well

Federal #1-20-9-16

Monument Butte Field, Lease #UTU-52018

Section 20-Township 9S-Range 16E

Duchesne County, Utah

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Federal #1-20-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

Eric Sundberg Regulatory Lead

RECEIVED
MAY 0 1 2012

DIV OF OIL, GAS, & MINING

# NEWFIELD PRODUCTION COMPANY APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL FEDERAL #1-20-9-16

MONUMENT BUTTE FIELD (GREEN RIVER) FIELD

**LEASE #UTU-52018** 

APRIL 30, 2012

#### TABLE OF CONTENTS

LETTER OF INTENT **COVER PAGE** TABLE OF CONTENTS UIC FORM 1 – APPLICATION FOR INJECTION WELL WELLBORE DIAGRAM OF PROPOSED INJECTION WORK PROCEDURE FOR INJECTION CONVERSION COMPLETED RULE R615-5-1 QUESTIONNAIRE COMPLETED RULE R615-5-2 QUESTIONNAIRE ATTACHMENT A ONE-HALF MILE RADIUS MAP ATTACHMENT A-1 WELL LOCATION PLAT LIST OF SURFACE OWNERS WITHIN ONE-HALF MILE RADIUS ATTACHMENT B ATTACHMENT C CERTIFICATION FOR SURFACE OWNER NOTIFICATION WELLBORE DIAGRAM - FEDERAL #1-20-9-16 ATTACHMENT E **ATTACHMENT E-1** WELLBORE DIAGRAM - FEDERAL #9-17-9-16 ATTACHMENT E-2 WELLBORE DIAGRAM - FEDERAL #15-17-9-16 **ATTACHMENT E-3** WELLBORE DIAGRAM - FEDERAL #7-20-9-16 ATTACHMENT E-4 WELLBORE DIAGRAM - FEDERAL #8-20-9-16 WELLBORE DIAGRAM - FEDERAL #9-20-9-16 ATTACHMENT E-5 ATTACHMENT E-6 WELLBORE DIAGRAM - FEDERAL #3-21-9-16 ATTACHMENT E-7 WELLBORE DIAGRAM – FEDERAL #4-21-9-16 **ATTACHMENT E-8** WELLBORE DIAGRAM - FEDERAL #5-21-9-16 **ATTACHMENT E-9** WELLBORE DIAGRAM – NGC FEDERAL #31-20G-9-16 ATTACHMENT E-10 WELLBORE DIAGRAM – STATE #13-16-9-16 ATTACHMENT E-11 WELLBORE DIAGRAM - GMB #3-16-9-16H ATTACHMENT F WATER ANALYSIS ATTACHMENT G FRACTURE GRADIENT CALCULATIONS ATTACHMENT G-1 FRACTURE REPORTS DATED - 7/11/07 - 7/26/07 ATTACHMENT H WORK PROCEDURE FOR PROPOSED PLUG AND ABANDON

WELLBORE DIAGRAM OF PROPOSED PLUGGED WELL

ATTACHMENT H-1

### STATE OF UTAH DIVISION OF OIL, GAS AND MINING

OPERATOR

**ADDRESS** 

#### APPLICATION FOR INJECTION WELL - UIC FORM 1

Newfield Production Company

1001 17th Street, Suite 2000 Denver, Colorado 80202

Federal #1-	20-9-16						
Butte (Green I	River)				Lease No.	UTU-5201	8
section	20	township	98	range	 16E	county	Duchesne
or:	Enhanced Disposal?	Recovery? .		Yes[X] Yes[]	No[] No[X]		
to be drilled? g well,				Yes[] I	No [ X ]		
	sutte (Green I section for an existing r:  o be drilled? g well,	of an existing project?	Sutte (Green River)  section 20 township  of an existing project?  r: Enhanced Recovery? Disposal? Storage?  o be drilled? g well,	Sutte (Green River)  section 20 township 9S  of an existing project?  Enhanced Recovery?  Disposal?  Storage?	Sutte (Green River)         20         township         9S         range           of an existing project?         Yes [ X ]           or:         Enhanced Recovery?         Yes [ X ]           Disposal?         Yes [ ] I           Storage?         Yes [ ] I           o be drilled?         Yes [ ] I           g well,	Sutte (Green River)         Lease No.           section         20         township         9S         range         16E           of an existing project?         Yes [X] No []           or:         Enhanced Recovery?         Yes [X] No []           Disposal?         Yes [] No [X]           Storage?         Yes [] No [X]           o be drilled?         Yes [] No [X]	Butte (Green River)         Lease No.         UTU-5201           section         20         township         9S         range         16E         county           of an existing project?         Yes [X] No []         Yes [X] No []         Yes [X] No [X]         Y

IMPORTANT: Additional information as required by R615-5-2 should accompany this form.

500 bpd pressure

5958

1769

3939

List of Attachments: Attachments "A" through "H-1"

I certify that this report is true and complete to the best of my knowledge.

from

rate

Proposed injection zone contains [x ] oil, [ ] gas, and/or [ ] fresh water within 1/2

Name:

Eric Sundberg

Signature

Title Phone No. Regulatory Lead (303) 893-0102

Date

(State use only)

Application approved by

Proposed injection interval:

mile of the well.

Proposed maximum injection:

Title

Approval Date

Comments:

#### FEDERAL 1-20-9-16

Spud Date: 05/16/07 Put on Production: 07/25/07

GL: 6038' KB: 6050'

Proposed Injection Wellbore Diagram

Cement Top @ 60'

Casing Shoe @ 324'

Initial Production: BOPD.

MCFD, BWPD

#### SURFACE CASING

CSG SIZE; 8-5/8" GRADE: J-55 WEIGHT: 24#

LENGTH: 7 jts. (312.36') DEPTH LANDED: 324,21' KB

HOLE SIZE:12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt, est 7 bbls cmt to surf.

1/26/09

Packer @ 4110'

4160-4167'

4680-46943

4780-4795

5124-5138'

5526-5544

PBTD @ 5958' SHOE @ 6029'

TD @ 6050

FRAC JOB

07/19/07 5526-5544'

40327# 20/40 sand in 416 bbls Lightning 17 frac fluid. Treated @ avg press of 2186 psi w/avg rate of 24.7 BPM. ISIP 2165 psi. Calc flush: 5524 gal. Actual flush: 5002 gal.

07/19/07 5124-5138' Frac LODC sands as follows:

Frac CP1 sands as follows:

60273# 20/40 sand in 510 bbls Lightning 17 frac fluid. Treated @ avg press of 2674 psi w/avg rate of 24.8 BPM, ISIP 2760 psi. Calc flush: 5122 gal. Actual flush: 4582 gal.

07/19/07 4780-4795' Frac C sands as follows:

60060# 20/40 sand in 510 bbls Lightning 17 frac fluid. Treated @ avg press of 1833 psi w/avg rate of 24.8 BPM, ISIP 1800 psi. Calc flush: 4778 gal. Actual flush: 4288 gal.

07/19/07 4680-4694 Frac D2 sands as follows:

79938# 20/40 sand in 623 bbls Lightning 17 frac fluid. Treated @ avg press of 1860 psi w/avg rate of 24.8 BPM. ISIP 1960 psi. Calc flush: 4678 gal. Actual flush: 4120 gal

07/20/07 4160-4167 Frac GB6 sands as follows:

25213# 20/40 sand in 335 bbls Lightning 17 frac fluid. Treated @ avg press of 2145 psi w/avg rate of 24.3 BPM. ISIP 2025 psi. Calc flush: 5503 gal. Actual flush: 4914 gal

Pump Change. Updated r & t details.

#### PRODUCTION CASING

CSG SIZE: 5-1/2' GRADE: J-55 WEIGHT: 15.5#

LENGTH: 137 jts. (6015,83') DEPTH LANDED: 6029.08' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 325 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.

CEMENT TOP: 60'

#### <u>TUBI</u>NG

SIZE/GRADE/WT .: 2-7/8" / J-55 / 6.5# NO. OF JOINTS: 179 its (5506.29') TUBING ANCHOR: 5518.29' KB NO. OF JOINTS: 1 jts (30.52') SEATING NIPPLE: 2-7/8" (1.10') SN LANDED AT: 5551.61' KB NO. OF JOINTS: 2 jts (61.81')

TOTAL STRING LENGTH: EOT @ 5614.97' KB

#### PERFORATION RECORD

07/10/07 5526-5544' 4 JSPF 72 holes 07/19/07 5124-5138' 4 ISPF 56holes 07/19/07 4780-4795' 4 JSPF 60 holes 07/19/07 4680-4694' 4 JSPF 56 holes 07/19/07 4160-4167' 4 JSPF 28 holes

#### FEDERAL 1-20-9-16

617'FNL & 652' FEL

NE/NE Section 20-T9S-R16E

Duchesne Co, Utah

API #43-013-33066; Lease # UTU-52018



### WORK PROCEDURE FOR INJECTION CONVERSION

- 1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
- 2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
- 3. Test casing and packer.
- 4. Rig down and move out.

### REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS RULE R615-5-1

- 1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.
- 2. A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:
  - 2.1 The name and address of the operator of the project.

Newfield Production Company 1001 17<sup>th</sup> Street, Suite 2000 Denver, Colorado 80202

A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.

See Attachment A.

2.3 A full description of the particular operation for approval is requested.

Approval is requested to convert the Federal #1-20-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.

2.4 A description of the pools from which the identified wells are producing or have produced.

The proposed injection well will inject into the Green River Formation.

2.5 The names, description and depth of the pool or pools to be affected.

The injection zone is in the Green River Formation. For the Federal #1-20-9-16 well, the proposed injection zone is from Garden Gulch to Basal Carbonate (3939' - 5958'). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD, which ever is shallower. The Garden Gulch Marker top is at 3612' and the TD is at 6050'.

2.6 A copy of a log of a representative well completed in the pool.

The referenced log for the Federal #1-20-9-16 is on file with the Utah Division of Oil, Gas and Mining.

2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.

See Attachment B.

An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.

See Attachment C.

2.10 Any additional information the Board may determine is necessary to adequately review the petition.

Newfield Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.

This proposed injection well is on a Federal lease (Lease #UTU-52018) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.

#### REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL, STORAGE AND ENHANCED RECOVERY WELLS SECTION V – RULE R615-5-2

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:
  - 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.

See Attachments A and B.

2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.

All logs are on file with the Utah Division of Oil, Gas and Mining.

2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

2.4 Copies of logs already on file with the Division should be referenced, but need not be refiled.

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.

The casing program is 8-5/8", 24# surface casing run to 324' KB, and 5-1/2", 15.5# casing run from surface to 6029' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.

See Attachment F.

#### The proposed average and maximum injection pressures.

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1769 psig.

2.8 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.

The minimum fracture gradient for the Federal #1-20-9-16, for existing perforations (4160' - 5544') calculates at 0.81 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1769 psig. We may add additional perforations between 3612' and 6050'. See Attachments G and G-1.

2.9 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.

In the Federal #1-20-9-16, the proposed injection zone (3939' - 5958') is in the Garden Gulch to the Basal Carbonate of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

2.10 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.

See Attachments E through E-11.

Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

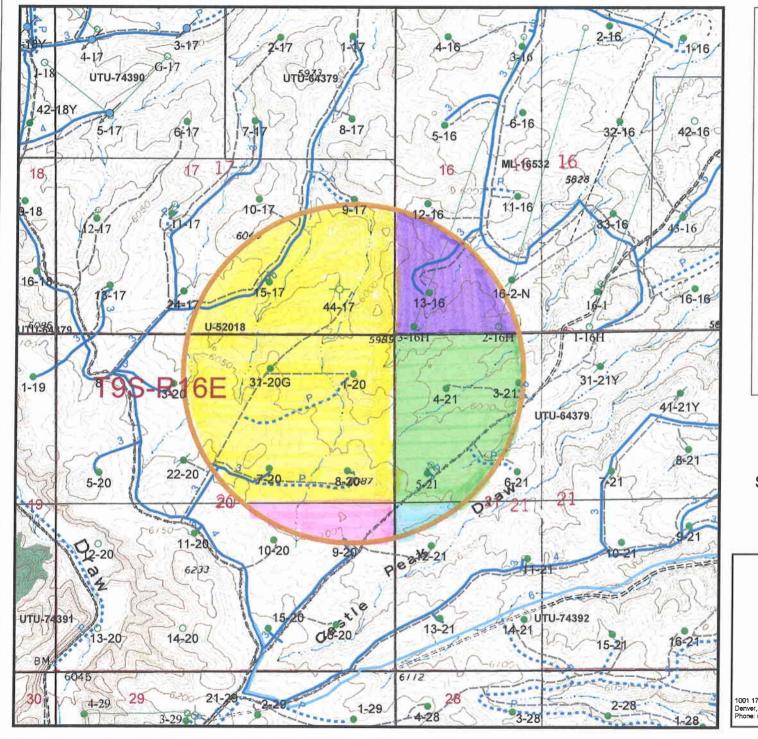
2.11 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.

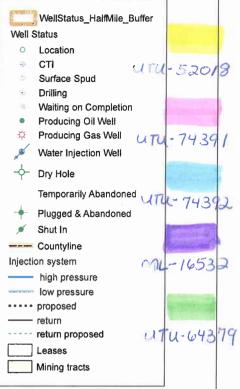
See Attachment C.

2.12 Any other information that the Board or Division may determine is necessary to adequately review the application.

Newfield Production Company will supply any requested information to the Board or Division.

### ATTACHMENT A





Federal 1-20 Section 20, T9S-R16E



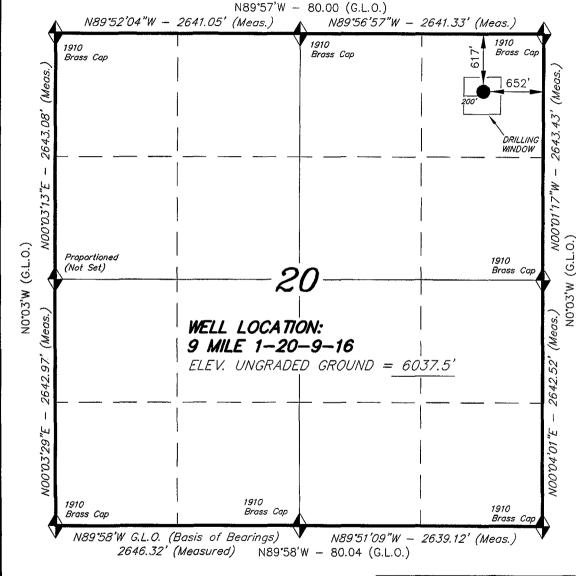
1/2 Mile Radius Map

**Duchesne & Uintah Counties** 

1001 17th Street Suite 2000 Denver, Colorado 80202 Phone: (303) 893-0102

March 13, 2012

### T9S, R16E, S.L.B.&M.



= SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SW) 9 MILE 1-20-9-16 (Surface Location) NAD 83 LATITUDE = 40° 01' 18.99" LONGITUDE = 110° 08' 09.95"

#### NEWFIELD PRODUCTION COMPANY

WELL LOCATION, 9 MILE 1-20-9-16, LOCATED AS SHOWN IN THE NE 1/4 NE 1/4 OF SECTION 20, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT ONE ABOVE PLAT WAS PREPARED FROM FIELD FOR ACTUM. SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND FILEP No.189377

TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501

DATE SURVEYED: 12-31-05	SURVEYED BY: C.M.
DATE DRAWN: 01-04-06	DRAWN BY: L.C.S.
REVISED:	SCALE: 1" = 1000'

#### **EXHIBIT B**

#	Legal Description	Lessor & Expiration	Lessee & Operating Rights	Surface Owner
1	T9S-R16E SLM	USA	Newfield Production Company	USA
	Section 17: S2	UTU-52018	Newfield RMI LLC	
	Section 20: N2	НВР		
2	T9S-R16E SLM	USA	Newfield Production Company	
	Section 19: E2SW, SE, LOTS 3, 4	UTU-74391	Newfield RMI LLC	
	Section 20: S2	НВР	ABO Petroleum Corp	
	Section 29: All		MYCO Industries Inc	
	Section 30: All		OXY Y-1 Company	
			Yates Petroleum Corp	
3	T9S-R16E SLM	USA	Newfield Production Company	USA
	Section 21: S2	UTU-74392	Newfield RMI LLC	
	Section 22: NENE, S2	НВР	ABO Petroleum Corp	
	Section 23: SWSW		MYCO Industries Inc	
	Section 24: SESE		OXY Y-1 Company	
	Section 26: NENE		Yates Petroleum Corp	
	Section 27: All			
	Section 28: All			
4	T9S-R16E SLM	State of Utah	Newfield RMI LLC	STATE of UTAH
	Section 16: All	ML- 16532	QEP Energy Company	
		НВР	El Paso E&P Company LP	
			American Petroleum Corp	
			Brave River Production	
			Trans Republic Resources Inc	
5	T9S-R16E SLM	USA	Newfield Production Company	USA
	Section 8: SWNE, SE	UTU-64379	Newfield RMI LLC	
	Section 9: SWSW	НВР	Yates Petroleum Corp	
	Section 17: NE			

Page 1 of 2

Section 18: E2SW, SE, LOTS 3,4 Section 19: NE, E2NW, LOTS 1,2

Section 21: N2

Section 22: W2NE, SENE, NW

Federal 1-20 Page 2 of 2

#### ATTACHMENT C

#### CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE:	Application for Approval of Class II Injection Well Federal #1-20-9-16
I hereby one-hal	certify that a copy of the injection application has been provided to all surface owners within a f mile radius of the proposed injection well.
Signed:	Newfield Production Company Eric Sundberg Regulatory Lead
Sworn t	o and subscribed before me this 30 th day of April , 2012.
	Public in and for the State of Colorado:  My Commission Expires  02/10/2013
wy Con	nmission Expires: 02/10/2013

### ATTACHMENT E

#### FEDERAL 1-20-9-16

Spud Date: 05/16/07 Put on Production: 07/25/07

GL: 6038' KB: 6050'

Wellbore Diagram

Initial Production: BOPD, MCFD, BWPD

Frac CP1 sands as follows: flush: 5524 gal. Actual flush: 5002 gal.

> 60060# 20/40 sand in 510 bbls Lightning 17 frac fluid. Treated @ avg press of 1833 psi w/avg rate of 24.8 BPM. ISIP 1800 psi. Calc

SURFACE CASING FRAC JOB CSG SIZE: 8-5/8" Cement Top @ 60' 07/19/07 5526-5544 GRADE: J-55 40327# 20/40 sand in 416 bbls Lightning 17 frac fluid. Treated @ avg press of 2186 psi w/avg rate of 24.7 BPM. ISIP 2165 psi. Calc WEIGHT: 24# LENGTH: 7 jts. (312.36') DEPTH LANDED: 324.21' KB Casing Shoe @ 324' 07/19/07 5124-51383 Frac LODC sands as follows: HOLE SIZE:12-1/4" 60273# 20/40 sand in 510 bbls Lightning 17 frac fluid. Treated @ avg press of 2674 psi w/avg rate of 24.8 BPM. ISIP 2760 psi. Calc CEMENT DATA: 160 sxs Class "G" cmt, est 7 bbls cmt to surf. flush: 5122 gal. Actual flush: 4582 gal. 07/19/07 4780-47953 Frac C sands as follows: flush: 4778 gal. Actual flush: 4288 gal. PRODUCTION CASING 07/19/07 4680-4694' Frac D2 sands as follows: 79938# 20/40 sand in 623 bbls Lightning 17 CSG SIZE: 5-1/2" frac fluid. Treated @ avg press of 1860 psi w/avg rate of 24.8 BPM. ISIP 1960 psi. Calc GRADE: J-55 flush: 4678 gal. Actual flush: 4120 gal WEIGHT: 15.5# 07/20/07 4160-4167 Frac GB6 sands as follows: LENGTH: 137 jts. (6015.83') 25213# 20/40 sand in 335 bbls Lightning 17 DEPTH LANDED: 6029.08' KB frac fluid. Treated @ avg press of 2145 psi w/avg rate of 24.3 BPM. ISIP 2025 psi. Calc HOLE SIZE: 7-7/8" flush: 5503 gal. Actual flush: 4914 gal CEMENT DATA: 325 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ. 1/26/09 Pump Change. Updated r & t details. CEMENT TOP: 60' <u>TUBING</u> SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5# NO. OF JOINTS: 179 jts (5506.29') TUBING ANCHOR: 5518.29' KB NO. OF JOINTS: 1 jts (30.52') SEATING NIPPLE: 2-7/8" (1.10') SN LANDED AT: 5551.61' KB NO. OF JOINTS: 2 jts (61.81') TOTAL STRING LENGTH: EOT @ 5614.97' KB PERFORATION RECORD SUCKER RODS 07/10/07 5526-5544' 4 JSPF 72 holes 4160-4167 POLISHED ROD: 1-1/2" x 26' SM polished rods 07/19/07 5124-5138' 4 ISPF 56holes 07/19/07 4780-4795' 4 JSPF 60 holes SUCKER RODS:1-2', 4', 6' & 8' x 3/4" pony rods, 100-3/4" guided rods, 95-07/19/07 4680-4694' 4 JSPF 3/4" slick rods, 20-3/4" guided rods, 6-1 1/2" x 25' weight rods. 4680-4694 56 holes 07/19/07 4160-4167' 4 JSPF 28 holes PUMP SIZE: CDI 2-1/2" x 1-1/2" x 16'x 20'RHAC 4780-4795 STROKE LENGTH: 120" PUMP SPEED, 5 SPM: 5124-5138' Anchor @ 5518' 5526-55443 SN@ 5552' EOT @ 5615' NEWFIELD PBTD @ 5958' SHOE @ 6029'

TD @ 6050

#### FEDERAL 1-20-9-16

617'FNL & 652' FEL NE/NE Section 20-T9S-R16E Duchesne Co, Utah

API #43-013-33066; Lease # UTU-52018

### ATTACHMENT E-1

#### Federal 9-17-9-16

Spud Date: 9-11-06 Put on Production: 11-01-06 GL: 5953' KB: 5965' SURFACE CASING CSG SIZE: 8-5/8' GRADE: J-55 WEIGHT: 24#

Wellbore Diagram

Cement top @ 30

Initial Production: BOPD. MCFD, BWPD

#### FRAC JOB 10-27-06 5540-5572 Frac CP1 sands as follows: 89695# 20/40 sand in 672 bbls Lightning 17 frac fluid. Treated @ avg press of 1635 psi w/avg rate of 24.9 BPM. ISIP 2000 psi. Calc flush: 5040 gal. Actual flush: 5538 gal. 10-27-06 5236-5256 Frac LODC sands as follows: 80345# 20/40 sand in 604 bbls Lightning 17 frac fluid. Treated @ avg press of 2685 psi w/avg rate of 27.3 BPM. ISIP 2560 psi. Calc flush: 4746 gal. Actual flush: 5234 gal. 10-27-06 5129-5148 Frac A 3 sands as follows: 80324# 20/40 sand in 597 bbls Lightning 17 frac fluid. Treated @ avg press of 2175 psi w/avg rate of 24.7 BPM. ISIP 2240 psi. Calc flush: 4923 gal. Actual flush: 4410 gal. 10-27-06 4092-4114' Frac GB4 sands as follows: 38251# 20/40 sand in 358 bbls Lightning 17 frac fluid. Treated @ avg press of 1410 w/ avg rate of 14.3 BPM, ISIP 1490 psi. Calc flush: 4485 gal. Actual flush: 4410 gal. 2/23/07 Pump Change. Rod & Tubing detail updated

# 05/27/08 updated rod and tubing detail 11/23/09 Pump change. Updated rod and tubing detail PERFORATION RECORD 10-17-06 5540-5572' 4 JSPF 10-27-06 5236-5256' 4 JSPF 10-27-06 5129-5148' 4 JSPF 10-27-06 4092-4114' 4 JSPF 4092-4114 5129-51483 5236-5256 Anchor @ 5486

TD @ 6050'

### LENGTH: 7 jts (310.22') Casing Shoe @ 322 DEPTH LANDED: 322.07° KB HOLE SIZE:12-1/4" CEMENT DATA: 160 sxs Class "G" cmt, est 6 bbls cmt to surf. PRODUCTION CASING CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15,5# LENGTH: 139 jts. (6032.96\*) DEPTH LANDED: 6044.21' KB HOLE SIZE: 7-7/8° CEMENT DATA: 325 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ CEMENT TOP AT: 30 **TUBING** SIZE/GRADE/WT.: 2-7/8" / J-55 / 6,5# NO. OF JOINTS: 175 jts (5485.5') TUBING ANCHOR: 5485.5' KB NO. OF JOINTS: 2 jts (63.01) SEATING NIPPLE: 2-7/8" (1-10") SN LANDED AT: 5551.2" KB NO. OF JOINTS: 2 jts (63.1') TOTAL STRING LENGTH: EOT @ 5616' KB SUCKER RODS POLISHED ROD: 1-1/2" x 22' SM SUCKER RODS: 1-2'x 3/4" pony rod, 1-6'x 3/4" pony rod, 1-8'x 3/4" pony rod, 99-34" guided rods, 86-34" guided rods, 30-34" guided rods, 6-1 1/2" weight PUMP SIZE: 2-1/2" x 1-1/2" x 12' x 16' RHAC pump STROKE LENGTH: 86" PUMP SPEED, SPM: 5 SPM SN 5551' 5540-5572' EOT @ 5616' NEWFIELD PBTD @ 5998' SHOE @ 6044

#### Federal 9-17-9-16

2108' FSL & 636' FEL NE/SE Section 17-T9S-R16E Duchesne Co, Utah

API # 43-013-33032; Lease # UTU-52018

80 holes

76 holes

88 holes

### ATTACHMENT E-2

#### Federal 15-17-9-16

Spud Date: 08/18/06 Put on Production: 10/13/06

DEPTH LANDED: 322,031 KB

K.B.: 6000, G.L5988 SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: 1-55

WEIGHT: 24# LENGTH: 7 jts. (310.18')

HOLE SIZE: 12-1/4"

Wellbore Diagram

Cement Top @60

Initial Production: BOPD. MCFD. BWPD

#### FRAC JOB

10/10/06 5817-58513

Frac CP5 sands as follows:

89648# 20/40 sand in 681 bbls Lightning 17 frac fluid. Treated @ avg press of 1910 psi w/avg rate 25.3 BPM. ISIP 2250 psi. Calc flush: 5849 gal. Actual flush: 5309 gal.

10/10/06 5515-55383

10/11/06 4980-4987

Frac CP1 sands as follows:

60364# 20/40 sand in 493 bbls Lightning 17 frac fluid. Treated @ avg press of 1727 psi w/avg rate of 25.1 BPM. ISIP 2120 psi. Calc flush: 5536 gal. Actual flush: 4998 gal.

Frac A.5 sands as follows:

29934# 20/40 sand 393 bbls Lightning 17 frac fluid. Treated @ avg press of 2320 psi w/avg rate of 25 BPM. ISIP 2500 psi. Calc flush: 4985 gal. Actual flush: 4473 gal.

10/11/06 4684-4698 Frac D3 sands as follows:

87753# 20/40 sand in 610 bbls Lightning 17 frac fluid. Treated @ avg press of 1960 psi w/avg rate of 25 BPM. ISIP 2250 psi. Calc flush: 4696 gal. Actual flush:4578 gal.

Pump Change 11/30/06 05/02/08 Stuck Pump 3/19/10

Rod & Tubing Detail updated Tubing detail updated

11/24/2011

4684-4698

4980-4987

5515-5538'

Anchor @ 5786

Pump change. Updated rod and tubing detail.

Pump Change. Updated rod & tubing detail.

#### PRODUCTION CASING

CSG SIZE: 5-1/2\* GRADE: J-55 WEIGHT: 15.5#

LENGTH: 136 its. (5986.81') DEPTH LANDED: 6000.06' KB

HOLE SIZE: 7-7/8

CEMENT DATA: 325 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ

CEMENT DATA: 160 sxs Class "G" cmt, est 6 bbls cmt to surf.

CEMENT TOP: 60

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5# NO. OF JOINTS: 183 jts (5785.5') TUBING ANCHOR: 5785.5' KB NO. OF JOINTS: 1 jts (31.7') SEATING NIPPLE: 2-7/8" (1.10') SN LANDED AT: 5820.1° KB NO. OF JOINTS: 2 jts (63.4') TOTAL STRING LENGTH: EOT @ 5885' KB

#### SUCKER RODS

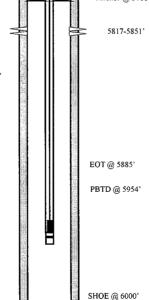
POLISHED ROD: 1-1/2" x 22' SM

SUCKER RODS: 1-2' x 3/4" pony rods, 1-4' x 3/4" pony rod, 1-6' x 3/4" pony rod, 1-8' x ¼" pony rod, 98- $\frac{1}{2}$ " = 2450' guided rods, 97- $\frac{1}{2}$ " = 2425' guided rods, 30- $\frac{1}{2}$ " = 750' guided rods, 6-1  $\frac{1}{2}$ " = 150' weight bars, 1 -  $\frac{1}{2}$ " = 2' pony

PUMP SIZE: 2-1/2" x 1-1/2" x 17'

STROKE LENGTH: 86"

PUMP SPEED, SPM: 4.5



TD @ 6005

SN 5820

#### PERFORATION RECORD

10/05/06 5817-5851 68 holes 10/10/06 5515-5538' 4 JSPF 92 holes 10/11/06 4980-4987 4 JSPF 28 holes 10/11/06 4684-46983 4 JSPF 56 holes

#### Federal 15-17-9-16

810' FSL & 1961' FEL SW/SE Section 17-T9S-R16E

Duchesne Co, Utah

API #43-013-33037; Lease #UTU-52018

# Attachment E-3

### Federal 7-20-9-16

Spud Date: 6-6-07

Put on Production: 8-12-05 GL: 6078' KB: 6090'

#### Injection Wellbore Diagram

Packer @ 4621

4655-46683

4946-4957° 5030-5038°

5279-5290

PBTD @ 5879°

TD @ 5950'

EOT @ 4626'

TOC @ 48

Casing Shoe @ 319

#### SURFACE CASING

CSG SIZE, 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jnts (306 9")
DEPTH LANDED: 318.75" KB

HOLE SIZE 12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15.5#

LENGTH 1343 jts (5918 61') DEPTH LANDED: 5931 86' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ

CEMENT TOP AT 48

#### **TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO OF JOINTS: 146 jts (4605')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 4617' KB

ARROW #1 PKR CE @ 4621.42'

TOTAL STRING LENGTH EOT @ 4626'

#### FRAC JOB

7-9-07 5279-5290" Frac LODC, sands as follows: 29,554# 20/40 sand in 370 bbls Lightning 17 frac fluid. Treated @ avg press of 1987 psi w/avg rate of 24.7 BPM. ISIP 2284 psi. Calc flush 5277 gal Actual flush 4746 gal 7-9-07 5030-5038 Frac LODC sands as follows: 24,274# 20/40 sand in 368 bbls Lightning 17 frac fluid. Treated @ avg press of 2044 psi w/avg rate of 24.7 BPM. ISIP 2143 psi. Calc flush: 5028 gal. Actual flush: 4557 gal. 7-9-07 4946-4957 Frac A3 sands as follows: 40,017# 20/40 sand in 427 bbls Lightning 17 frac fluid Treated @ avg press of 1862 psi w/avg rate of 24.7 BPM. ISIP 2238 psi Calc flush: 4944 gal Actual flush: 4389 gal. 7-9-07 4655-4668 Frac D3 sands as follows: 48.763# 20/40 sand in 450 bbls Lightning 17 frac fluid 24.8 BPM. Calc flush: 4653 gal Actual flush: 4578 gal. 6/9/09 Stuck Pump. Updated rod & tubing details. 5/26/11 Pump Change Updated rod and tubing 01/30/12 Parted rods. Updated rod and tubing detail 3/12/12 Pump change: Updated rod & tubing detail 5/9/12 Convert to Injection Well 5/11/12 Conversion MIT Finalized - update tbg detail

#### PERFORATION RECORD

7-3-07 5279-5290' 4 JSPF 44 holes 7-9-07 5030-5038' 4 JSPF 32 holes 7-9-07 4946-4957' 4 JSPF 44 holes 7-9-07 4655-4668' 4 JSPF 52 holes



#### Federal 7-20-9-16

2098' FNL & 1961' FEL SW/NE Section 20-T9S-R16E Duchesne Co, Utah

API #43-013-33106; Lease #UTU-52018

# ATTACHMENT E-4

## FEDERAL 8-20-9-16

Spud Date: 06/05/07 Initial Production: BOPD, Put on Production: 07/09/07 Wellbore Diagram MCFD, BWPD GL: 6055' KB: 6067' FRAC JOB 07/02/07 5484-5492 Frac CP1 sands as follows: 15470# 20/40 sand in 274 bbls Lightning 17 SURFACE CASING frac fluid. Treated @ avg press of 2490 psi w/avg rate of 24.6 BPM, ISIP 2369 psi. Calc CSG SIZE: 8-5/8" flush: 5482 gal. Actual flush: 4981 gal. GRADE: LSS Cement Top @ 210 Frac LODC sands as follows: 07/02/07 5270-5280 WEIGHT: 24# 29548# 20/40 sand in 365 bbls Lightning 17 frac fluid. Treated @ avg press of 2397 psi w/avg rate of 24.4 BPM. ISIP 2486 psi. Calc LENGTH: 7 jts. (303.80°) DEPTH LANDED: 313.8° KB flush: 5268 gal. Actual flush: 4796 gal. HOLE SIZE: 12-1/4" 07/02/07 5129-5176 Frac LODC sands as follows: 4712# 20/40 sand in 389 bbls Lightning 17 CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf. frac fluid. Blender Broke. Need to Refrac. ISIP 2340 psi. Calc.flush: 5127 gal. Actual flush: 5292 gal. 07/03/07 5129-5176 Frac LODC sands as follows: PRODUCTION CASING 95147# 20/40 sand in 706 bbls Lightning 17 CSG SIZE: 5-1/2' frac fluid. Treated @ avg press of 2554 psi w/avg rate of 24 BPM. ISIP 2775 psi. Calc GRADE: J-55 flush: 5127 gal. Actual flush: 4662 gal. WEIGHT: 15.5# 07/03/07 5055-5074 Frac LODC sands as follows: LENGTH: 134 jts. (5936.00') 71220# 20/40 sand in 719 bbls Lightning 17 frac fluid. Treated @ avg press of 2372 psi DEPTH LANDED: 5934,00° KB w/avg rate of 24.3 BPM. ISIP 2680 psi. Calc HOLE SIZE: 7-7/8' flush: 5053 gal. Actual flush: 5095 gal. CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ 07/03/07 4963-4971 Frac A1 sands as follows: 40277# 20/40 sand in 492 bbls Lightning 17 CEMENT TOP: 210 frac fluid. Treated @ avg press of 2725 psi 4570-4576 w/avg rate of 24.5 BPM. ISIP 2290 psi. Calc flush: 4961 gal. Actual flush: 4452 gal 4656-4663 07/05/07 4656-4709 Frac D3&C sands as follows: TUBING 29723# 20/40 sand in 376 bbls Lightning 17 SIZE/GRADE/WT.: 2-7/8" / J-55 / 6,5# 4704-4709 frac fluid. Treated @ avg press of 1630 psi w/avg rate of 24.5 BPM. ISIP 1700 psi. Calc flush: 4654 gal. Actual flush: 4200 gal NO. OF JOINTS: 174 jts (5422.3') TUBING ANCHOR: 5434.3' KB 07/05/07 4570-4576 Frac DI sands as follows: NO. OF JOINTS: 1 it (31.7') 42080# 20/40 sand in 356 bbls Lightning 17 4963-4971 frac fluid. Treated @ avg press of 1829 psi SEATING NIPPLE: 2-7/8" (1.10') 5055-5074 w/avg rate of 24.4 BPM. ISIP 1875 psi. Calc SN LANDED AT: 5468.7' KB flush: 4568 gal. Actual flush: 4494 gal. 5129-5138` 2/10/09 NO. OF JOINTS: 2 jts (62.7°) Pump Change. Updated r & t details 5164-5176 5/26/2010 TOTAL STRING LENGTH: EOT @ 5533' KB Tubing leak. Updated rod and tubing detail. 5270-5280 PERFORATION RECORD SUCKER RODS 06/28/07 5484-5492' 4 JSPF POLISHED ROD: 1-1/2" x 26' SM polished rods 07/02/07 5270-52801 4 ISPF 40 holes 4 JSPF 07/02/07 5164-5176' 48 holes SUCKER RODS: 100- ¾" guided rods, 58- ¾" sucker rods, 54- ¾" guided rods, Anchor @ 5434 07/02/07 5129-5138\* 4 JSPF 6- 1 1/2" weight bars 36 holes 5484-5492 SN 5469 07/03/07 5055-50741 4 ISPF 76 holes PUMP SIZE: CDI 2-1/2" x 1-1/2" x 12' x 16' RHAC 07/03/07 4963-4971 4 JSPF 32 holes STROKE LENGTH 07/03/07 4704-4709 4 JSPF 20 holes PUMP SPEED, SPM EOT @ 5533 07/03/07 4656-4663 4 JSPF 28 holes 07/05/07 4570-4576' 4 JSPF 24 holes PBTD @ 5880 **FEDERAL 8-20-9-16** SHOE @ 5934' 2133'FNL & 746' FEL TD @ 5950 SE/NE Section 20-T9S-R16E

Duchesne Co, Utah
API #43-013-33107; Lease # UTU-52018

# Federal 9-20-9-16

Attachment E-5

Spud Date: 6-14-07

Put on Production: 8-23-07

GL: 6095' KB: 6107'

SURFACE CASING

LENGTH: 7 jts (302,22')

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

#### Wellbore Diagram

Cement top @ 88

Casing Shoe @ 313'

Initial Production: BOPD, MCFD, BWPD

#### FRAC JOB

2/1/2010

08-17-07 5248-5254'

Frac LODC sands as follows:

14994# 20/40 sand in 282 bbls Lightning 17 frac fluid. Treated @ avg press of 2477 psi w/avg rate of 24.8 BPM. ISIP 2540 psi. Calc

flush: 5246 gal. Actual flush: 4704 gal.

08-17 5000-5028' Frac LODC sands as follows:

151355# 20/40 sand in 1050 bbls Lightning 17 frac fluid. Treated @ avg press of 1647 psi w/avg rate of 24.8 BPM. ISIP 2100 psi. Calc

w/avg rate of 24.8 BPM, ISIP 2100 psi, C flush: 4998 gal. Actual flush: 4494 gal.

08-17-07 4764-4774' Frac B.5 sands as follows:

19761# 20/40 sand in 294 bbls Lightning 17 frac fluid. Treated @ avg press of 2232 psi w/avg rate of 24.8 BPM. ISIP 4148 psi. Calc flush: 4762 gal. Actual flush: 3839 gal.

08-17-07 4602-4611' Frac D2 sand as follows:

45991# 20/40 sand in 435 bbls Lightning 17 frac fluid. Treated @ avg press of 2094 w/ avg rate of 24.8 BPM. ISIP 1850 psi. Calc flush: 4600 gal. Actual flush: 4515 gal.

Pump change. Updated rod and tubing detail.

DEPTH LANDED: 313.12' KB HOLE SIZE:12-1/4"

PRODUCTION CASING CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 156 jts. (6053.98')

DEPTH LANDED: 6067.23' KB

HOLE SIZE: 7-7/8'

CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.

CEMENT DATA: 160 sxs Class "G" cmt, est 8 bbls cmt to surf.

CEMENT TOP AT: 88'

#### **TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6,5#
NO. OF JOINTS: 165 jts (5188.5')
TUBING ANCHOR: 5200,5' KB
NO. OF JOINTS: 2 jts (62.9')
SEATING NIPPLE: 2-7/8" (1.10')

SEATING NIPPLE: 2-7/8" (1.10 SN LANDED AT: 5266.3' KB NO. OF JOINTS: 2 jts (62.9')

TOTAL STRING LENGTH: EOT @ 5331.0' KB

#### PERFORATION RECORD

08-13-07 5248-5254' 4 JSPF 24 holes 08-17-07 5000-5028' 4 JSPF 112 holes 08-17-07 4767-4774' 4 JSPF 28 holes 08-17-07 4602-4611' 4 JSPF 36 holes

## SUCKER RODS

POLISHED ROD: 1-1/2" x 26' SM

SUCKER RODS: 1-6' x ¾" pony rod, 1-4' x ¾" pony rod, 100- ¾" guided rods, 82- ¾" sucker rods, 22- ¾" guided rods, 6-1 ½" weight bars

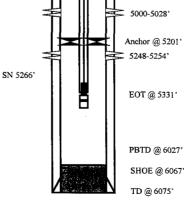
PUMP SIZE: 2-1/2" x 1-1/2" x 18' RHAC

STROKE LENGTH: 120" PUMP SPEED, SPM: 5 SPM

# NEWFIELD

#### Federal 9-20-9-16

2011'FSL & 789' FEL (NE/SE) Section 20, T9S, R16E Duchesne County, Utah API #43-013-33068; Lease # UTU-74391



4602-4611

4767-4774

Attachment E-6

## Federal 3-21-9-16

Spud Date: 10-24-06 Initial Production: BOPD. Put on Production: 12-7-06 Wellbore Diagram MCFD, BWPD GL: 5975' KB: 5987' SURFACE CASING FRAC JOB CSG SIZE: 8-5/8" 11-30-06 5742-5755 Frac CP4 sands as follows: 29540# 20/40 sand in 399 bbls Lightning 17 GRADE: J-55 frac fluid. Treated @ avg press of 2075 psi WEIGHT: 24# Cement top @ 90' w/avg rate of 24.9 BPM. ISIP 2100 psi. Calc flush: 5740 gal. Actual flush: 5233 gal. LENGTH: 7 its (310.86') 12-01-06 5500-5523 Frac CP1 sands as follows: DEPTH LANDED: 322.71' KB 89095# 20/40 sand in 713 bbls Lightning 17 HOLE SIZE:12-1/4" frac fluid. Treated @ avg press of 1762 psi w/avg rate of 24.8 BPM. ISIP 1830 psi. Calc CEMENT DATA: 160 sxs Class "G" cmt, est 2 bbls cmt to surf. flush: 5498 gal. Actual flush: 4994 gal. 12-01-06 5194-5232' Frac LODC sands as follows: 126238# 20/40 sand in 886 bbls Lightning 17 frac fluid. Treated @ avg press of 2565 psi w/avg rate of 24.7 BPM. ISIP 2450 psi. Calc flush: 5192 gal. Actual flush: 4675 gal. PRODUCTION CASING 12-01-06 4984-5002 CSG SIZE: 5-1/2" Frac A1 sands as follows: 18951#20/40 sand in 288 bbls Lightning 17 GRADE: I-55 frac fluid. Treated @ avg press of 2110 w/ avg rate of 24.9 BPM. ISIP 2130 psi. Calc WEIGHT: 15.5# flush: 4982 gal. Actual flush: 4519 gal. LENGTH: 134 jts. (5839.32') 12-01-06 4876-4881' Frac B2 sands as follows: DEPTH LANDED: 5852,57' KB 12667# 20/40 sand in 262 bbls Lightning 17 HOLE SIZE: 7-7/8' frac fluid. Treated @ avg press of 2135 w/ avg rate of 25.0 BPM, ISIP 1710 psi. Calc CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ. flush: 4874 gal. Actual flush: 4788 gal. CEMENT TOP AT: 90' 03/10/07 Pump Change. Update rod and tubing details. 12/19/08 Tubing Leak, Updated rod & tubing details. 09/08/08 Parted Rods. Updated rod & tubing details. **TUBING** SIZE/GRADE/WT .: 2-7/8" / J-55 / 6,5# NO. OF JOINTS: 170 jts (5464.16') 4876-4881 TUBING ANCHOR: 5476,16' KB NO. OF JOINTS: 1 jts (31.59') 4984-5002 SEATING NIPPLE: 2-7/8" (1.10') SN LANDED AT: 5510.55' KB 5194-5205 NO. OF JOINTS: 1 jts (33.42') NO. OF JOINTS: 3jts (95,00) TOTAL STRING LENGTH: EOT @ 5646.27' KB 5212-5232 PERFORATION RECORD **SUCKER RODS** 11-27-06 5742-5755' 4 JSPF 52 holes 11-30-06 5500-5523' 4 JSPF 92 holes POLISHED ROD: 1-1/2" x 22' SM Anchor @ 5476' 12-01-06 5212-5232' 4 JSPF SUCKER RODS: 1-8', & 1-4 x ¼" pony rods, 99- ¼" scrapered rods, 95- ¾" plain rods, 40- %" scrapered rods, 6-1 %" weight rods. 80 holes 12-01-06 5194-5205' 4 JSPF 44 holes 12-01-06 4984-5002' 4 JSPF 72 holes PUMP SIZE: 2-1/2" x 1-1/2" x 14' RHAC w/SM plunger 5500-55233 12-01-06 4876-4881' 4 JSPF 20 holes STROKE LENGTH 86' SN 5511' PUMP SPEED, SPM: 5 SPM EOT @ 5646' 5742-5755 NEWFIELD PBTD @ 5806' SHOE @ 58527 Federal 3-21-9-16 TD @ 5965' 774' FNL & 1909' FWL NE/NW Section 21-T9S-R16E

Duchesne Co, Utah
API # 43-013-33019; Lease # UTU-64379

# ATTACHMENT E-7

## Federal 4-21-9-16

Spud Date: 10-25-06 Initial Production: Put on Production: 12-12-06 Wellbore Diagram MCFD, BWPD GL: 5991' KB: 6003' SURFACE CASING FRAC JOB CSG SIZE: 8-5/8" 12-04-06 5494-5512 Frac CPI sands as follows: GRADE: J-55 5213# 20/40 sand in 385 bbls Lightning 17 frac fluid. Treated @ avg press of 2157 psi WEIGHT: 24# Cement top @ 110 w/avg rate of 25 BPM. ISIP 2550 psi. Calc LENGTH: 7 its (310.54') flush: 5492 gal. Actual flush: 10458 gal. Frac LODC sands as follows: DEPTH LANDED: 322.39' KB 12-04-06 5204-5222 23667# 20/40 sand in 320 bbls Lightning 17 frac fluid. Treated @ avg press of 2620 psi w/avg rate of 25 BPM. ISIP 2850 psi. Calc HOLE SIZE:12-1/4" CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf. flush: 5202 gal. Actual flush: 4704 gal. 12-05-06 4993-5072 Frac A3, A1 sands as follows: 117759# 20/40 sand in 829 bbls Lightning 17 frac fluid. Treated @ avg press of 2350 psi w/avg rate of 25 BPM. ISIP 2200 psi. Calc flush: 4991 gal. Actual flush: 4704 gal. PRODUCTION CASING 12-05-06 4636-4654 Frac DS2 sands as follows: CSG SIZE: 5-1/2" 80794# 20/40 sand in 588 bbls Lightning 17 GRADE: J-55 frac fluid. Treated @ avg press of 1519 w/ avg rate of 25 BPM. ISIP 2000 psi. Calc WEIGHT: 15.5# flush: 4634 gal. Actual flush: 4158 gal. LENGTH: 135 jts. (5924,58') Frac PB11 sands as follows: 20165# 20/40 sand in 265 bbls Lightning 17 12-05-06 4400-4406 DEPTH LANDED: 5937.83' KB HOLE SIZE: 7-7/8" frac fluid. Treated @ avg press of 2077 w/ avg rate of 25 BPM. ISIP 1720 psi. Calc CEMENT DATA: 300 sxs Prem. Lite II mixed & 452 sxs 50/50 POZ flush: 4398 gal. Actual flush: 4284 gal. CEMENT TOP AT: 110' 11/13/08 Parted rods. Updated rod &tubing details. 4400-44063 TUBING SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5# 4636-4654 NO. OF JOINTS: 173 its (5453,00') 4993-5003 TUBING ANCHOR: 5465.00' KB NO. OF JOINTS: 1 jts (31.52') SEATING NIPPLE: 2-7/8" (1.10') 5062-50723 SN LANDED AT: 5499,32' KB NO. OF JOINTS: 2 jts (63.04') 5204-5210' TOTAL STRING LENGTH: EOT @ 5563.91' KB 5214-5222 Anchor @ 5465' PERFORATION RECORD SUCKER RODS SN 5499 11-29-06 5494-5512' 4 JSPF POLISHED ROD: 1-1/2" x 22' SM 12-04-06 5214-5222' 4 JSPF 32 holes SUCKER RODS: 1-2', 4', 6', 8' x ¾" pony rods, 99- ¾" guided rods, 81- ¾" plain rods, 32- ¾" guided rods, 6- 1 ½" weight rods. 12-04-06 5204-5210' 4 JSPF 24 holes 12-04-06 5062-5072' 4 JSPF 40 holes 12-04-06 4993-5003" 4 JSPF 40 holes PUMP SIZE: 2-1/2" x 1-1/2" x 10' x 14' RHAC w/SM plunger 12-05-06 4636-4654' 4 JSPF 72 holes STROKE LENGTH: 86' 12-05-06 4400-4406' 4 JSPF 24 holes PUMP SPEED, SPM: 5 SPM EOT @ 5564' NEWFIELD PBTD @ 5916' SHOE @ 5937' Federal 4-21-9-16 TD @ 5965' 851' FNL & 782' FWL NW/NW Section 21-T9S-R16E Duchesne Co, Utah

API # 43-013-33069; Lease # UTU-64379

# ATTACHMENT E-8

## Federal 5-21-9-16

Spud Date: 10/21/06 Initial Production: Put on Production: 12/02/06 Wellbore Diagram MCFD, BWPD K.B.: 6048° G.L.: 6036° SURFACE CASING FRAC JOB CSG SIZE: 8-5/8" 11/22/06 5852-5860 Frac CP5 sands as follows: GRADE: J-55 24030# 20/40 sand in 364 bbls Lightning 17 Cement Top@ 50 frac fluid. Treated @ avg press of 2590 psi WEIGHT: 24# w/avg rate of 24.8 BPM, ISIP 2850 psi. Calc LENGTH: 7 its. (310.62') flush: 5858 gal. Actual flush: 5334 gal. 11/22/06 5724-5732 Frac CP4 sands as follows: DEPTH LANDED: 322.47" KB 37476# 20/40 sand in 415 bbls Lightning 17 HOLE SIZE:12-1/4" frac fluid. Treated @ avg press of 2400 psi w/avg rate of 24.9 BPM. ISIP 2500 psi, Calc CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf. flush: 5730 gal. Actual flush: 5216 gal. 11/22/06 5482-5502 Frac CP1 sands as follows: 56615# 20/40 sand in 467 bbls Lightning 17 PRODUCTION CASING frac fluid. Treated @ avg press of 1940 psi w/avg rate of 24.9 BPM, ISIP 2200 psi. Calc CSG SIZE: 5-1/2" flush: 5500 gal. Actual flush: 4977 gal. GRADE: J-55 11/24/06 4584-4652 Frac D1, D2 sands as follows: 156867# 20/40 sand in 1002 bbls Lightning17 frac fluid. Treated @ avg press of 1675 psi w/avg rate of 25.1 BPM. ISIP 1960 psi. Calc WEIGHT: 15.5# LENGTH: 135 jts. (5927.96') DEPTH LANDED: 5941.21' KB flush: 4650 gal. Actual flush: 4494 gal. 03/21/07 Pump Change: Updated rod and tubing HOLE SIZE: 7-7/8° CEMENT DATA: 325 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ. 6/1/2010 Pump change. Updated rod and tubing detail. CEMENT TOP: 50 9/7/2010 Pump change. Updated rod and tubing detail. 10/22/10 4998-5016 Frac A3 sands as follows: 61766# 20/40 sand in 501 bbls Lightning17 frac fluid. **TUBING** 10/25/10 Re-Completion SIZE/GRADE/WT.: 2-7/8" / J-55 / 6,5# NO. OF JOINTS: 175 jts (5640.6') TUBING ANCHOR: 5652.6' KB NO. OF JOINTS: Lits (31.6') SEATING NIPPLE: 2-7/8" (1-10') SN LANDED AT: 5687' KB 4584-4592 NO. OF JOINTS: 1 jts (31.6') GAS ANCHOR: 5719.7° 4638-4652 SEATING NIPPLE: 2-7/8" (1.2') NO. OF JOINTS: 3 jts (94.9') TOTAL STRING LENGTH: EOT @ 5822' KB 4998-5000 5006-5008' PERFORATION RECORD SUCKER RODS 5014-5016 11/09/06 5852-5860' 4 JSPF 32 holes POLISHED ROD: 1-1/2" x 33 11/22/06 5724-5732` 4 ISPF 32 holes SUCKER RODS: 1-4" x ½" , 1 – 6 x ½", 1 – 8 x ½" pony rod; 99- ½" guided rods; 91 - ½" sucker rods; 30- ½" guided rods, 6- 1 ½" weight bars 11/22/06 5482-5502 4 JSPF 80 holes 5482-5502 11/24/06 4686-4701 4 JSPF 60 holes 11/24/06 4638-4652 4 JSPF 56 holes PUMP SIZE: 2-1/2" x 1-3/4" x 20" x 24' RHAC w/SM plunger 11/24/06 4584-4592 4 JSPF 32 holes STROKE LENGTH: 74" 10/22/10 5014-5016" Anchor @ 5653' 3 JSPF 6 holes PUMP SPEED, SPM: 5 10/22/10 5006-5008 3 JSPF 6 holes SN 5687 10/22/10 4998-5000 3 JSPF 6 holes 5724-5732 EOT @ 5822' 5852-5860 NEWFIELD PBTD @ 5890' SHOE @ 5941' Federal 5-21-9-16 TD @ 5950' 2033' FNL & 551' FWL SW/NW Section 21-T9S-R16E Duchesne Co, Utah

API # 43-013-33020: Lease # UTU-64379

Attachment E-9

## NGC Fed. 31-20G-9-16

Spud Date: 1/04/85 Put on Production: 4/08/85 GL: 6051' KB: 6030'

#### Wellbore Diagram

Initial Production: 88 BOPD, 62 MCFPD, 21 BWPD

#### SURFACE CASING FRAC JOB CSG SIZE: 8-5/8" 3/10/85 5530'-5556' Frac zone as follows: GRADE: K-55 120,000# 20/40 sand + 30,000# 12/20 sand in WEIGHT:24# 1263 bbl gel. Average treating pressure 2800 psi at 20 BPM. ISIP 2500 psi. Calc. flush: LENGTH: 7 jts. (319.75') 5530 gal. Actual flush: 3654 gal. 3/10/85 DEPTH LANDED: 319' 3/17/85 4760'-4780 Frac zone as follows: HOLE SIZE:12-1/4" 45,000# 20/40 sand + 12,135# 12/20 sand in CEMENT DATA: 250 sxs Class "H" 1112 bbl gel. Average treating pressure 3100 psi at 20 BPM. ISIP 1800 psi. Calc. flush: 4760 gal. Actual flush: 1260 gal. 4692'-4702' 3/26/85 Frac zone as follows: 32,000# 20/40 sand + 14,000# 12/20 sand in 581 bbl gel. Average treating pressure 3200 psi at 25 BPM. ISIP 2000 psi. Calc flush 4692 gal. Actual flush: 3444 gal. 5082'-5105' 1/31/98 Frac zone as follows: 120,000# 20/40 sand in 489 bbl gel Average PRODUCTION CASING treating pressure 6600 psi at 24.8 BPM. ISIP 4693 psi Calc flush: 1317 gal Actual flush. CSG SIZE: 5-1/2" / J-55 LT&C / 15.5# 1737 gal. LENGTH: 74 jts. CSG SIZE: 5-1/2" / K-55 / 15 5# LENGTH: 74 jts. DEPTH LANDED: 6118 Cement Top@ 2450' HOLE SIZE 7-7/8' CEMENT DATA: 240 sxs Lite, tail w/ 570 sxs Class "H" CEMENT TOP AT 2450' per CBL **TUBING** SIZE/GRADE/WT : 2-7/8" / N-80 / 6.5# NO. OF JOINTS: 172 jts. (5457.93') TUBING ANCHOR. 5469.93' KB NO. OF JOINTS: 2 its (62.00') SN LANDED AT: 1 10' x 2 7/8" (5533.03') KB NO. OF JOINTS: 1 jt. (31 90') TOTAL STRING LENGTH: 5564.93' KB 4692'-4702' 4760'-4780' SUCKER RODS POLISHED ROD: 1-1/4" X 22 SUCKER RODS 4 - 1-1/2" weight rods, 154 - 3/4" slick rods, 61 - 7/8" guided rods, 1-4', 1-6', 1-10' x 7/8" pony rods 5082'-5092' PUMP SIZE: 2-1/2" x 1-1/2' x 16' RHAC STROKE LENGTH: PUMP SPEED: 5095'-5105' LOGS: DIL, LDT-CNL, EPT, LSS, GR, SP, ABCL, CBL Anchor @ 5469' PERFORATION RECORD 5530'-5556' 3/02/85 5530'-5556' 4 SPF 104 holes 3/13/85 4764'-4780' 4 SPF 64 holes 4760'-4780' 3/15/85 4 SPF 80 holes 3/23/85 4692'-4702' 40 holes 1/30/98 5082'-5092' 4 SPF 40 holes 1/30/98 5095'-5105' 4 SPF 40 holes

SN @ 5533'KB EOT @ 5564'KB

PBTD @ 5991'KB TD @ 6150'



NGC Fed. #31-20G-9-16 540' FNL & 1944' FEL NWNE Section 20-T9S-R16E Duchesne Co, Utah API #43-013-31071; Lease #U-52018

# ATTACHMENT E-10

## State 13-16-9-16

Spud Date: 4/9/08

Put on Production: 6/18/08 GL: 5959' KB: 5971'

### Wellbore Diagram

3978-3986

4156-4164

4670-4680

4694-47013

Anchor @ 5473'

5506-5516'

5520-5528

EOT @5540'

PBTD @ 5742

TD @ 5770'

#### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24# LENGTH: 7jts (313.38') HOLE SIZE: 12-1/4"

CEMENT DATA: To Surface with 160 sx Class 'G' cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15.5# LENGTH: 132jts HOLE SIZE: 7-7/8" DEPTH LANDED: 5763-293

CEMENT DATA: 275 sx Premlite 11 and 400 sx 50/50 Poz

CEMENT TOP AT: 46

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5# NO. OF JOINTS: 177 jts (5460.9') TUBING ANCHOR: 5472.9' NO. OF JOINTS: 1jt (31.70') SEATING NIPPLE: 2-7/8" (1,10') SN LANDED AT: 5507.1'kb NO. OF JOINTS: 1 jts (31.10') TOTAL STRING LENGTH: EOT @ 5540

### SUCKER RODS

POLISHED ROD: 1-1/2" x 26' polished rod

SUCKER RODS. 1 x ½" = 2' pony rods, 113-3/4" = 2825' guided rods, 55-3/4" = 1375' sucker rods, 41 -3/4" = 1025' guided rods, 6-1 1 ½" = 150'sinker

PUMP SIZE: CDI 2-1/2" x 1-1/4" x 12' x 16' RHAC pump

STROKE LENGTH: 100" PUMP SPEED, SPM: 4

# **NEWFIELD**

State 13-16-9-16 652' FSL & 524' FWL SW/SW Section 16-T9S-R16E Duchesne Co, Utah API #43-013-33853; Lease #Utah State ML-16532

#### FRAC JOB

06-06-08 5506-5616 Frac CP1 sds as follows: 40,770# 20/40 sand in 426 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1994 psi w/ ave rate of 23.8 BPM. ISIP 2188 psi. Actual Flush: 4914 gals.

06-06-08 4670-4680" Frac D2 sds as follows:

 $40,\!545\#\,20/40$  sand in 410 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1811 psi w/ ave rate of 23.8 BPM. ISIP 1920 psi. Actual Flush: 4120 gals.

06-06-08 4156-4164 Frac GB6 sds as follows:

50,204# 20/40 sand in 438 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1855 psi w/ ave rate of 24.0 BPM. ISIP 1810 psi. Actual Flush: 3692 gals.

06-06-08 3978-3986' Frac GB2 sds as follows:

30,226# 20/40 sand in 366 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1552 psi w/ ave rate of 15.6 BPM. ISIP 1587 psi. Actual

1/6/09 Tubing Leak. Updated rod & tubing

9/30/09 Tubing Leak. Updated rod & tubing

07/24/10 Pump Change, Updated rod & tubing,

4/19/2011 Tubing Leak. Updated rods & tubing.

#### PERFORATION RECORD

3978-3986'	4 JSPF	32 holes
4156-4164'	4 JSPF	32 holes
4670-4680'	4 JSPF	40 holes
4694-4701	4 JSPF	28 holes
5506-5516'	4 JSPF	40 holes
5520-5528'	4 JSPF	32 holes

TVD TD 6.011

1553 East Highway 40 Vernal, UT 84078





A HALLIBURTON SERVICE

### Water Analysis Report

**Production Company:** 

**NEWFIELD PRODUCTION** 

Well Name:

**SWDIF** 

Sample Point:

Sample Date: Sample ID:

After production filter

12/9/2011 WA-204150

Sales Rep: Darren Betts Lab Tech: Gary Peterson

> Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specific	s		Analysis @ Prop	perties in Sample Specifics	
Test Date:	12/9/2011	Cations	mg/L	Anions	mg/L
System Temperature 1 (°F):	300.00	Sodium (Na):	6799.09	Chloride (CI):	10000.00
System Pressure 1 (psig):	3000.00	Potassium (K):		Sulfate (SO <sub>4</sub> ):	2.00
System Temperature 2 (°F):	70.00	Magnesium (Mg):		Bicarbonate (HCO3):	1024.80
System Pressure 2 (psig):		Calcium (Ca):		Carbonate (CO <sub>3</sub> ):	0.00
Calculated Density (g/ml):		Strontium (Sr):		Acetic Acid (CH3COO)	0.00
pH:	8.20	Barium (Ba):		Propionic Acid (C2H5COO)	0.00
Calculated TDS (mg/L):		Iron (Fe):		Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	0.00
CO2 in Gas (%):	0.00	Zinc (Zn):		Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	0.00
Dissolved CO <sub>2</sub> (mg/L)):	0.00	Lead (Pb):		Fluoride (F):	0.00
H2S in Gas (%):		Ammonia NH3:		Bromine (Br):	0.00
H2S in Water (mg/L):	10.00	Manganese (Mn):		Silica (SiO2):	0.00

Notes:

(PTB = Pounds per Thousand Barrels)

			cium conate	Bariun	n Sulfate		ron Ifide		ron oonate		psum 04-2H2O		lestite SO4		alite IaCl	III II SE	inc Ilfide
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	РТВ
70	14	0.68	13.26	0.21	0.60	2.60	0.26	0.67	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	346	0.70	13.48	0.00	0.00	2.38	0.26	0.78	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	678	0.76	14.55	0.00	0.00	2.24	0.26	0.91	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	1009	0.82	15.79	0.00	0.00	2.16	0.26	1.02	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	1341	0.90	17.10	0.00	0.00	2.12	0.26	1.13	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	1673	0.99	18.39	0.00	0.00	2.12	0.26	1.22	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	2004	1.09	19.55	0.00	0.00	2.15	0.26	1.31	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248	2336	1.19	20.54	0.00	0.00	2.21	0.26	1.37	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	2668	1.30	21.32	0.00	0.00	2.28	0.26	1.42	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	3000	1.40	21.90	0.00	0.00	2.36	0.26	1.46	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Hemi	hydrate	Anh	udrata	00	Political	7	line	100	000	THE PERSON NAMED IN	NOA!	0	BOTH WALL	-	-

			hydrate 4~0.5H2 O		ydrate SO4		lcium oride		inc conate		ead Ilfide		/lg icate		Mg icate		Fe icate
Temp (°F)	PSI	SI	РТВ	SI	РТВ	SI	РТВ	SI	PTB	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ
70	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.45	0.28	0.00	0.00	0.00	0.00	0.00	0.00
95	346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.59	0.28	0.00	0.00	0.00	0.00	0.00	0.00
121	678	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.89	0.28	0.00	0.00	0.00	0.00	0.00	0.00
146	1009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.28	0.28	0.00	0.00	0.00	0.00	0.00	0.00
172	1341	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.76	0.28	0.00	0.00	0.00	0.00	0.00	0.00
197	1673	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.32	0.28	0.00	0.00	0.00	0.00	0.00	0.00
223	2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.93	0.28	0.00	0.00	0.00	0.00	0.00	0.00
248	2336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.60	0.28	0.00	0.00	0.00	0.00	0.00	0.00
274	2668	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.30	0.28	0.00	0.00	0.00	0.00	0.00	0.00
300	3000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.03	0.28	0.00	0.00	0.00	0.00	0.00	0.00

These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Lead Sulfide

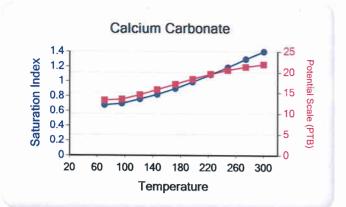
1553 East Highway 40

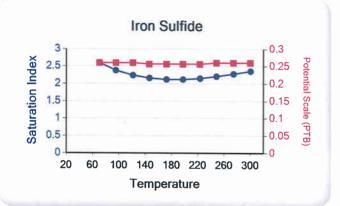
Vernal, UT 84078

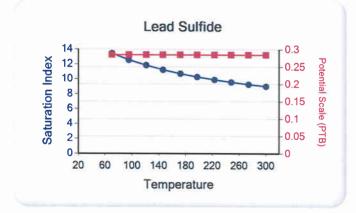
ATTACHMENT F

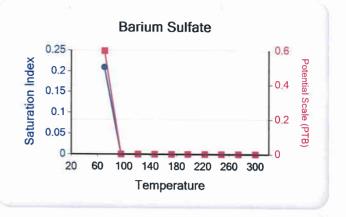
multi-chem

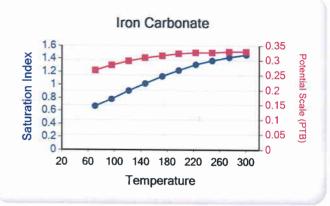
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Iron Sulfide Iron Carbonate Lead Sulfide











1553 East Highway 40 Vernal, UT 84078 ATTACHMENT F



Water Analysis Report

Production Company:

**NEWFIELD PRODUCTION** 

Well Name: Sample Point: FED 1-20-9-16

Sample Date: Sample ID: Water leg 3/15/2012 WA-209564 Sales Pon: D

Sales Rep: Darren Betts
Lab Tech: Gary Peterson

Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specific	×		Analysis @ Prop	perties in Sample Specifics	
Test Date:	3/19/2012	Cations	mg/L	Anions	mg/L
System Temperature 1 (°F):	300.00	Sodium (Na):	6379.81	Chloride (CI):	9000.00
System Pressure 1 (psig):	3000.00	Potassium (K):		Sulfate (SO <sub>4</sub> ):	30.00
System Temperature 2 (°F):	70.00	Magnesium (Mg):		Bicarbonate (HCO <sub>3</sub> ):	1561.60
System Pressure 2 (psig):	14.70	Calcium (Ca):		Carbonate (CO <sub>3</sub> ):	0.00
Calculated Density (g/ml):	1.01	Strontium (Sr):		Acetic Acid (CH3COO)	0.00
pH:	9.30	Barium (Ba):		Propionic Acid (C2H5COO)	0.00
Calculated TDS (mg/L):	17043.55	Iron (Fe):		Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	0.00
CO2 in Gas (%):	0.00	Zinc (Zn):		Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	0.00
Dissolved CO <sub>2</sub> (mg/L)):	0.00	Lead (Pb):		Fluoride (F):	0.00
H <sub>2</sub> S in Gas (%):	0.00	Ammonia NH3:		Bromine (Br):	0.00
H2S in Water (mg/L):	0.50	Manganese (Mn):		Silica (SiO2):	0.00

Notes:

(PTB = Pounds per Thousand Barrels)

			cium conate	Bariun	Sulfate		ron Ilfide		ron oonate		psum 04-2H2O		estite SO4		alite laCl		Zinc ulfide
Temp (°F)	PSI	SI	PTB	SI	РТВ	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	14	1.30	7.71	0.26	0.48	1.98	0.11	1.33	0.14	0.00	0.00	0.00	0.00	0.00	0.00	9.32	0.01
95	346	1.32	7.74	0.02	0.05	1.76	0.11	1.44	0.14	0.00	0.00	0.00	0.00	0.00	0.00	8.80	0.01
121	678	1.36	7.77	0.00	0.00	1.60	0.11	1.55	0.14	0.00	0.00	0.00	0.00	0.00	0.00	8.35	0.01
146	1009	1.41	7.81	0.00	0.00	1.49	0.11	1.65	0.14	0.00	0.00	0.00	0.00	0.00	0.00	7.96	0.01
172	1341	1.47	7.85	0.00	0.00	1.43	0.11	1.73	0.14	0.00	0.00	0.00	0.00	0.00	0.00	7.63	0.01
197	1673	1.53	7.89	0.00	0.00	1.40	0.11	1.80	0.14	0.00	0.00	0.00	0.00	0.00	0.00	7.35	0.01
223	2004	1.59	7.92	0.00	0.00	1.39	0.11	1.85	0.14	0.00	0.00	0.00	0.00	0.00	0.00	7.09	0.01
248	2336	1.66	7.95	0.00	0.00	1.39	0.11	1.88	0.14	0.00	0.00	0.00	0.00	0.00	0.00	6.85	0.01
274	2668	1.72	7.98	0.00	0.00	1.40	0.11	1.89	0.14	0.00	0.00	0.00	0.00	0.00	0.00	6.63	0.01
300	3000	1.77	8.00	0.00	0.00	1.41	0.11	1.87	0.14	0.00	0.00	0.00	0.00	0.00	0.00	6.41	0.01
	i	Hemi	hydrate	Anh	vdrate	Cal	cium	7	inc		ead		Ma	C	Ma		Eo

			nydrate 4~0.5H2 O		ydrate SO4		lcium oride		inc conate	120	ead Ilfide		/Ig icate		Mg icate		Fe icate
Temp (°F)	PSI	SI	PTB	SI	РТВ	SI	PTB	SI	PTB	SI	PTB	SI	РТВ	SI	РТВ	SI	РТВ
70	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.38	0.04	0.00	0.00	0.00	0.00	0.00	0.00
95	346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.53	0.04	0.00	0.00	0.00	0.00	0.00	0.00
121	678	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.01	10.80	0.04	0.00	0.00	0.00	0.00	0.00	0.00
146	1009	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.01	10.17	0.04	0.00	0.00	0.00	0.00	0.00	0.00
172	1341	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.01	9.63	0.04	0.00	0.00	0.00	0.00	0.00	0.00
197	1673	0.00	0.00	0.00	0.00	0.00	0.00	0.91	0.01	9.15	0.04	0.00	0.00	0.00	0.00	0.00	0.00
223	2004	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.01	8.72	0.04	0.00	0.00	0.00	0.00	0.00	0.00
248	2336	0.00	0.00	0.00	0.00	0.00	0.00	1.15	0.01	8.33	0.04	0.00	0.00	0.00	0.00	0.00	0.00
274	2668	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.01	7.97	0.04	0.00	0.00	0.00	0.00	0.00	0.00
300	3000	0.00	0.00	0.00	0.00	0.00	0.00	1.22	0.01	7.64	0.04	0.00	0.00	0.00	0.00	0.00	0.00

These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Lead Sulfide

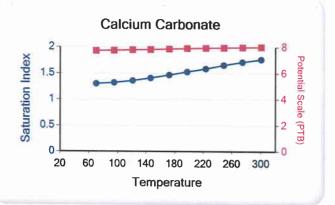
1553 East Highway 40

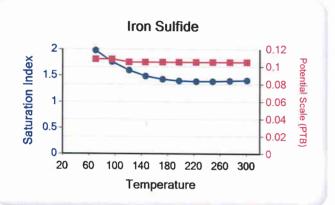
Vernal, UT 84078

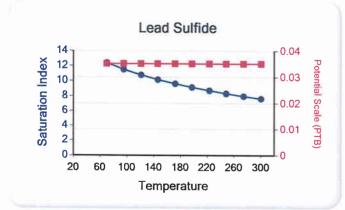
ATTACHMENT

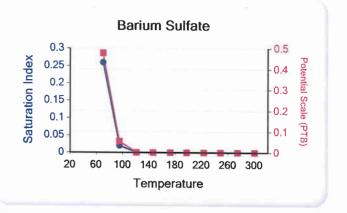
multi-chem

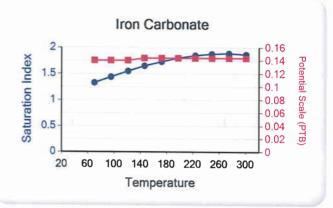
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide

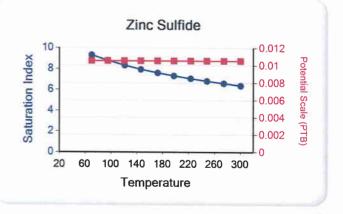


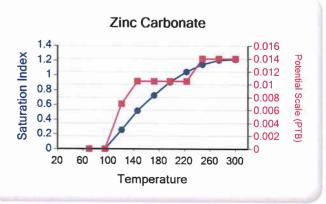












### Attachment "G"

# Federal #1-20-9-16 Proposed Maximum Injection Pressure

Frac l	Interval			Calculated Frac	
	eet)	Avg. Depth	ISIP	Gradient	
Top	<b>Bottom</b>	(feet)	(psi)	(psi/ft)	Pmax
5526	5544	5535	2165	0.82	2129
5124	5138	5131	2760	0.97	2727
4780	4795	4788	1800	0.81	1769 ◀──
4680	4694	4687	1960	0.85	1930
4160	4167	4164	2025	0.92	1998
				Minimum	1769

Calculation of Maximum Surface Injection Pressure

Pmax = (Frac Grad -(0.433\*1.015)) x Depth of Top Perf where pressure gradient for the fresh water is .433 psi/ft and specific gravity of the injected water is 1.015.

Frac Gradient = (ISIP +(0.433\*Top Perf.))/Top Perf.

**Please note:** These are existing perforations; additional perforations may be added during the actual conversion procedure.



# ATTACHMENT G-1 105/10

## **DAILY COMPLETION REPORT**

WELL NA	<u> </u>	Fed	eral 1-20-9	-16	Re	port Date:	: 11	-Jul-07			Day:	1
Opera	ation:	Comp	letion					Rig:	Rig	jless		
·		40		W	ELL ST	ATUS						
	8 5/8' Size: _	@	<u>''</u> Wt:	Prod Grd:	Csg:		_ @ :от @: _	6029'	Csg BP/Sand	PBTD: PBTD:	5929	9' WL
				PERFO	DRATIO	N RECOR	Ð					
<u>Zone</u>		<u>Perfs</u>		SPF/#shots			one		<u>Perfs</u>		SPF/	#shots
	_					-				_		
	_									_		
CP1 sds	-	526-5544'	<del></del> -	4/72		<u></u>				<b>-</b>		
				CHRONOL	OGICAL	OPERAT	LIONS			<u>-</u>		
Date Work i	Perfor	med:	10-Jul-0		OOIOAL	- OF LIVA	10143	SITP.		SICP		0
valves to 450 Perforate sta Titan) w/ 4 s	age #′	I. CP1 sds	@ 5526-44	4' w/ 3 1/8"	Slick au	uns (19 g	ram, .4	9" HE, 120	, 21.92" p	en, Ex	(P-33	@ 60 19-331
Starting fluid Fluid <u>lost/</u> red Ending fluid	overed to be r	d today: ecovered: _	0 143	3	Starting Oil lost/r Cum oil	recovered	 date: today: _ :			-		
IFL:		FFL:	FTP: _	CI	hoke:		Final	Fluid Rate:		Final o	oil cut	<u> </u>
			LATION D						COST			
Base Fluid us Company:	sed: _		Job <sup>-</sup>	Туре:					erford BOP	-		\$450
Procedure or	r Fauir	mont dotail:					_		C NU crew	-		\$300
i iocedule oi	Lquip	mem uetan.					_		SI trucking			\$800
<u> </u>					,,,,				rators LLC	-		6,800
									orilling cost	-	<u> </u>	8,488 \$400
<u> </u>		<del></del>							iate hot oil	-		\$420
									reparation	-		\$300
									C wellhead	-		1,500
		. <u> </u>							Overbood	-		1,200
<u></u>									Overhead	-	*	\$3,000
Max TP:		Max Rate:		Total fluid p	mpd.			NPC -	Supervisor			\$300
Avg TP:		Avg Rate:		Total Prop p						-		
ISIP:		5 min: _		min:	· —	nin:		DAILY CO	OST:		\$34	3,558
Completi	ion Su	pervisor:	Orson I	Barnev			<del>-</del>	TOTAL WE				3 558



# ATTACHMENT G-1 20f 10

Day: \_\_2\_

## **DAILY COMPLETION REPORT**

Report Date: July 20, 2007

Federal 1-20-9-16

**WELL NAME:** 

Ope	ration	: <u>'</u>	Completion					Rig:	Rig	less	
					WELL S	TATUS					
Surf Csg:	8 5/8	@ _	324'		od Csg:		@	6029'	Csg i	PBTD:	5929' WL
Tbg:	Size:		Wt:	Grd	:	Pkr/E	ОТ @:		BP/Sand		
				PERI	FORATIO	N RECOR	RD				
<u>Zone</u>			<u>Perfs</u>	SPF/#shot			one		<u>Perfs</u>		SPF/#shots
	-				_			-		-	
	<del>-</del> -				<del>-</del>					-	
CP1 sds	-	5526-	5544'	4/72	_					-	
				CHRONO	_ DLOGICA	L OPERA	TIONS			<u> </u>	
Date Worl	k Perfo	rmed:	July 19	9, 2007					:	SICP:	0
down @ 2	rac 17 756 psi age #2	บเด. เ . Trea	n head" frac fl Pumped 780 g ted @ ave pre 2165 psi. Lea	jals 4% Techi ess of 2186 p	ni-Hib 76` si W/ ave	7W "pre-pa rate of 24.	ad" & fr :7 BPN	esh wtr spa	icer ahead o	f frac	Perfs broke
Starting flu Fluid <u>lost/</u> r Ending flui	ecovered to be	ed toda recove	y: 4' ered: 5	143 16 59	Starting Oil lost Cum oi	ERY (BBL g oil rec to d recovered I recovered	date: today:			•	
IFL:					Choke: _		_ Fina	I Fluid Rate:		Final o	oil cut:
			STIMULATIO						COST	<u>s</u>	
Base Fluid				ob Type:	Sand	frac	-		rvicesCP1	•	\$22,542
Company:		3J Ser							wtr & truck	•	<u>\$700</u>
Procedure		-	_	CP1 sands de	own 5 1/2	2" casing		N	IPC fuel gas		\$110
			chni-Hib 767V		<del></del>		_	Weather	ford service	-	\$1,150
			vater spacer &	Cross-link			_	NPC	supervision		<u>\$75</u>
3200	gals o	f pad					_			_	
2500	gals V	V/ 1-5 <sub>1</sub>	opg of 20/40 s	and			_				
5026	gals o	f 5-8 p	pg of 20/40 sa	ınd			_				
500	gals of	15% H	CL acid				_				
Flus	h W/ 50	002 gal	s of slick wate	er			_			_	
**Fiu	sh calle	ed @ bl	enderinclude	es 2 bbls pum	p/line vol	ume**			-		
			Rate: 24.8 BP			416 bbls	- -				
		Avg R	tate: <u>24.7 BP</u>	M Total Prop	pmpd:_	40,327#	_				
	: <u>2165</u>		min:	10 min:	_	FG: <u>.83</u>	_	DAILY C			\$24,577
Comple	etion S	upervi	isor: Ga	ry Dietz				<b>TOTAL W</b>	<b>ELL COST:</b>		\$368,135



# ATTACHMENT G-1

304/0

# **DAILY COMPLETION REPORT**

Report Date: July 20, 2007

Federal 1-20-9-16

**WELL NAME:** 

WELL NAM	<u>E:</u> <u>Federa</u>	I 1-20-9-16	Re	port Date:	July	20, 2007		Day: 2
Operation	on: <u>Completi</u>	on				Rig:	Rigless	
			WELL ST	TATUS	<del></del>			
Surf Csg: 85	<u>/8'</u> @ <u>324'</u>	P	rod Csg:	5 1/2"	@	6029'	Csg PBTD	: 5929' WL
Tbg: Siz	e: W	t:Gr	d:	Pkr/E	от @:		BP/Sand PBTD	
		PEF	RFORATIO	N RECORI	D			
<u>Zone</u>	<u>Perfs</u>	SPF/#sh		Zo	_		<u>Perfs</u>	SPF/#shots
		_				<u></u>		
						-		
LODC sds	5124-5138'	4/56						
CP1 sds	5526-5544'	4/72						
Data Mada Ba			OLOGICA	L OPERAT	<u>IONS</u>			
Date Work Per	formed: <u>Ju</u>	ıly 19, 2007				SITP:	SICP	1399
Day 2(b):	re WIT crane & lu	brigator Bun M	loothorford	E 1/0	!4-	£1 41	1.5	
perf gun. Set	s WLT, crane & lu plug @ 5230'. Pe	erf stage #2 (I C	Peatnerrord	ี่ 5 1/2" com <b>ด 51ว</b> ⊿₋ <b>วถ</b> '	posite	flow-throug	th frac plug & 14'	X 3/18" slic
stage #2 W/ 60	0,273# 20/40 sand	in 510 bbls Liah	tning frac	<b>(4)</b> 3124-36 17 fluid Pu	ww.4	<b>JOPF</b> . All 780 dale 1º	Techni-Hib 76	:rvices & tra
& rresn wtr spa	cer anead of frac.	Perfs broke dov	vn @ 3621	l psi (on thir	rd atter	nnt of nres	surina anainet no	rfe) Treate
@ ave press of	f 2674 psi W/ ave	rate of 24.8 BPN	/I. Spotted	l 500 gals 1	5% HO	CL acid in f	lush to cover star	ne#3 ISIP-
2760 psi. Leave	e pressure on well.	Est 1069 BWT	R.	,	- , , , , ,	- uoiu iii i	dell' le devel ela	30 #0. 10H =
See day 2(c)								
Starting fluid to	ad to be recovered:			ERY (BBLS				
Fluid lost/recov		510	_	recovered t	_	<u> </u>		
Ending fluid to	be recovered:	1069		recovered:	<b>,</b>			
IFL:	FFL:	FTP:	_Choke: _		Final	Fluid Rate:	Final	oil cut:
	STIMULA	TION DETAIL					COSTS	
	: Lightning 17	_ Job Type:	Sand	frac	_	BJ Servi	cesLODC	\$13,010
Company:	BJ Services	_			_	CD	wtr & truck	\$1,000
Procedure or Ed	•	LODC sands	down 5 1/	2" casing	_		PC fuel gas	\$150
	of 4% Techni-Hib 7				_		rd frac plug	\$2,400
	of fresh water space	cer & Cross-link			<u>F</u>		LLC-LODC	\$4,165
4600 gals		///			-	NPC NPC	supervision	\$75
	W/ 1-5 ppg of 20/				-	<del></del>		
	of 5-8 ppg of 20/4				_			
	W/ 8 ppg of 20/40	J sand	<del></del> .		-			
	of 15% HCL acid				_			
	4582 gals of slick				_			
	alled @ blenderind 20 Max Rate: 24.9			<u>me**</u> 510 bbls	-			<del></del>
	4 Avg Rate: 24.8		· · -	60,273#	_			
ISIP: 276		10 min:		FG: <u>.97</u>	_	DAILY C	OST:	\$20,800
Completion	Supervisor:	Gary Dietz				TOTAL WE	LL COST:	\$388,935



# ATTACHMENT G-1 40f/0

Day: 2

## **DAILY COMPLETION REPORT**

Report Date: July 20, 2007

WELL NAME: Federal 1-20-9-16

	Rig:	Rigi	less	
WELL STATUS				
	6029'			5929' WL
Tbg: Size: Wt: Grd: Pkr/EOT @:		BP/Sand F	PBTD:	5230',4900'
PERFORATION RECORD				
Zone Perfs SPF/#shots Zone		<u>Perfs</u>		SPF/#shots
C sds 4780-4795' 4/60				
LODC sds 5124-5138' 4/56				
CP1 sds 5526-5544' 4/72				
CHRONOLOGICAL OPERATIONS				
Date Work Performed: July 19, 2007	SITP:	9	SICP:	2003
Day 2(c):	-		,	
RU Perforators WLT & run Weatherford 5 1/2" composite flow-through frac plug	& 15' X	3/18" slick p	oerf gu	ın. Set plug
@ 4900°. Perf stage #3 (C sds) @ 4780-95' W/ 4 JSPF. All 1 run. RU BJ Serv	ices & fra	c stage #3	W/ 60	060# 20/40
sand in 510 bbls Lightning frac 17 fluid. Pumped 780 gals 4% Techni-Hib 767W frac. Perfs broke down @ 4170 psi (on sixth attempt of pressuring against perfs)	"pre-pad	" & fresh wi	tr spac	cer ahead o
ave rate of 24.8 BPM. Spotted 500 gals 15% HCL acid in flush to cover stage #	. reated	u @ ave pre -18∩∩ nsi T	2SS OT	1833 psi vv
well. Est 1579 BWTR.	IOII -	- 1000 psi. L	.cave	pressure or
See day 2(d)				
FLUID RECOVERY (BBLS)			-	
Starting fluid load to be recovered: 1069 Starting oil rec to date: Oil lost/recovered today:				
Fluid <u>lost/recovered today:</u> Ending fluid to be recovered:  510  Oil lost/recovered today:  Cum oil recovered:		<del></del>		
	id Rate:		Final c	oil cut:
STIMULATION DETAIL		COSTS		
Base Fluid used: Lightning 17 Job Type: Sand frac	BJ S	<u>COSTS</u> ServicesC	2	\$13,010
Company: BJ Services		wtr & truck	•	\$1,000
Procedure or Equipment detail: C sands down 5 1/2" casing	NF	PC fuel gas	•	\$150
780 gals of 4% Techni-Hib 767W "pre-pad"	eatherfor	d frac plug	•	\$2,400
509 gals of fresh water spacer & Cross-link		ors LLCC		
				\$3,830
4600 gals of pad	NPC s	supervision	•	
4600 gals of pad 3000 gals W/ 1-5 ppg of 20/40 sand	NPC s			\$3,830 \$75
	NPC s			
3000 gals W/ 1-5 ppg of 20/40 sand	NPC s			
3000 gals W/ 1-5 ppg of 20/40 sand 6000 gals of 5-8 ppg of 20/40 sand	NPC s			
3000 gals W/ 1-5 ppg of 20/40 sand 6000 gals of 5-8 ppg of 20/40 sand 1756 gals W/ 8 ppg of 20/40 sand	NPC s		- - - -	
3000 gals W/ 1-5 ppg of 20/40 sand 6000 gals of 5-8 ppg of 20/40 sand 1756 gals W/ 8 ppg of 20/40 sand 500 gals of 15% HCL acid	NPC s			· · · · · · · · · · · · · · · · · · ·
3000 gals W/ 1-5 ppg of 20/40 sand 6000 gals of 5-8 ppg of 20/40 sand 1756 gals W/ 8 ppg of 20/40 sand 500 gals of 15% HCL acid Flush W/ 4288 gals of slick water	NPC s		- - - - -	· · · · · · · · · · · · · · · · · · ·
3000 gals W/ 1-5 ppg of 20/40 sand 6000 gals of 5-8 ppg of 20/40 sand 1756 gals W/ 8 ppg of 20/40 sand 500 gals of 15% HCL acid Flush W/ 4288 gals of slick water **Flush called @ blenderincludes 2 bbls pump/line volume**	NPC s		- - - - - -	· · · · · · · · · · · · · · · · · · ·
3000 gals W/ 1-5 ppg of 20/40 sand 6000 gals of 5-8 ppg of 20/40 sand 1756 gals W/ 8 ppg of 20/40 sand 500 gals of 15% HCL acid Flush W/ 4288 gals of slick water  **Flush called @ blenderincludes 2 bbls pump/line volume** Max TP: 2285 Max Rate: 24.9 BPM Total fluid pmpd: 510 bbls Avg TP: 1833 Avg Rate: 24.8 BPM Total Prop pmpd: 60,060#	NPC s	supervision		· · · · · · · · · · · · · · · · · · ·



# ATTACHMENT G-1 5 of 10

# **DAILY COMPLETION REPORT**

Federal 1-20-9-16

WELL NAME:

WELL N	<u>AME:</u>	<u>Federal</u>	1-20-9-16	Re	port Date:	July	20, 2007	4		Day:	2
Oper	ation	Completic	on_	<del></del>			Rig:	Rig	less		
				WELL ST	TATUS						······································
Surf Csg:	8 5/8		_	Prod Csg: _		@	6029'	Csg	PBTD:	5929	' WL
Tbg:	Size:	Wt		Grd:	Pkr/E	OT @:		BP/Sand			4900'
			P	ERFORATIO	N PECOP	n		_BP/Sand	PBTD:	474	40'
<u>Zone</u>		<u>Perfs</u>	SPF/#s			<u>ne</u>		<u>Perfs</u>		SPF/#	<u>shots</u>
D2 sds	•	4680-4694'	4/56	<del></del>					-		
C sds		4780-4795'	4/60				<del></del>		-		
LODC sds	•	5124-5138'	4/56						<u>-</u>		
CP1 sds		5526-5544'	<u>4/72</u>					-	-		
D ( ) W   I				NOLOGICA	L OPERAT	IONS		, <u>, , , , , , , , , , , , , , , , , , </u>			
Date Work	Perfo	rmed: <u>Jul</u>	y 19, 2007				SITP:		SICP:	14	20
Frac stage #4 of frac. Treat	covered W/ 79,9 ed @ a	dumpbailer W/ 8 gals acid & strung out sa 938# 20/40 sand in 62 we press of 1860 psi ell. Est 2052 BWTR.	nd. Flowing fairl 23 bbls Liahtnina	y clean @ end. frac 17 fluid P	Casing press umped 780 ga	sure @ ils 4% T	150 psi. RU B echni-Hib 767\	J & breakdow	n D2 pe	rfs @ 1	889 psi
<u> </u>											
Starting flui	d load	to be recovered:	<u>FL</u> 1579	UID RECOV	ERY (BBL:						
Fluid lost/re			473	_	recovered t				-		
Ending fluid	l to be	recovered:	2052		recovered:	•			-		
IFL:		FFL:	_ FTP:	Choke:		Final	Fluid Rate:		Final o	oil cut:	
		STIMULAT	ION DETAIL					COST	S		
Base Fluid (	used:	Lightning 17	_ Job Type: _	Sand	frac	, .	BJ Se	ervicesD2		\$16	3,739
Company:		BJ Services	_			,	CD	wtr & truck		\$^	1,400
Procedure of	r Equ	ipment detail:	D2 sands	down 5 1/2	" casing		NF	PC fuel gas	_	_	\$225
<u>780 g</u>	als of	4% Techni-Hib 7	67W "pre-pad	"			Weatherfo	d frac plug		\$2	2,400
<u>341 g</u>	als of	fresh water space	er & Cross-lin	k			Perforato	rs LLCD2	_	\$4	4,390
6000	gals o	f pad					NPC :	supervision	_		\$75
4000	gals V	V/ 1-5 ppg of 20/4	l0 sand						_		
8000	gals o	f 5-8 ppg of 20/40	) sand	_					_		
2397	gals V	V/ 8 ppg of 20/40	sand						=		
<u>500 g</u>	als of	15% HCL acid						,,,,,	-		
Flush	W/ 4	120 gals of slick v	vater		***				-		
**Flus	h call	ed @ blenderinc	udes 2 bbls p	ump/line volu	ıme**	. ,	<u>, ,</u>		-		
		Max Rate: 24.9			623 bbls				<u>-</u>		
		Avg Rate: <u>24.8</u>		rop pmpd: _	79,938#				-		
	1960	5 min:			FG: <u>.85</u>		DAILY C	-			5,229
Comple	tion S	upervisor:	Gary Dietz				TOTAL WE	LL COST:		\$434	4,629



# ATTACHMENT G-1

6 of 10

Day: 2

## **DAILY COMPLETION REPORT** Federal 1-20-9-16

Report Date: July 20, 2007

WELL NAME:

Ope	ration	: .	Completion	1				Rig:	Rig	less	
· · · · · · · · · · · · · · · · · · ·					WELL S	TATUS					
Surf Csg:	8 5/8	' @	324'		od Csg:	5 1/2"	@	6029'	Cea	PRTN.	5929' WL
Tbg:	Size:		Wt:	Grd	_		ОТ @:				5230',4900'
			<del></del>			· · ·					4740',4250'
				PER	FORATIO	ON RECOR	<u>D</u>				,
Zone 2			<u>Perfs</u>	SPF/#shot	<u>ts</u>	<u>Zo</u>	<u>ne</u>		<u>Perfs</u>		SPF/#shots
GB6 sds	_	4160-		4/28	_			<u> </u>		_	
D2 sds			4694'	4/56	_					-	
C sds LODC sds	-		4795'	4/60				. <u> </u>		-	
CP1 sds	-	5124- 5526-		4/56				•		_	
OF 1 Sus		3326-	3344	4/72	_	•				_	
	-	-		CHRONO	)LOGICA	AL OPERAT	IONS				
<b>Date Work</b>	Perf	ormed:	: July	19, 2007				SITP:		SICP:	1740
Day 2(e):			<del></del>								
@ 4250.	<b>Perris</b> fs to 4	t <b>age</b> #	<b>F5 (GB6 sa:</b> siholding s	erford 5 1/2" co s) <b>@ 4160-67' \</b> olid.	N/ 4 JSF	PF. All 1 ru	n. Rl	J BJ Servic	es to frac s	tage #	5. Pressure
Shut well in	with	pressu	re overnight	:. Est 2052 BW	TR						
		p. 000u	o ovoringrii	Lot 2002 DVV	113.						
				ELLUE	DECO	VEDY (DDI	<u> </u>	· · · · · · · · · · · · · · · · · · ·			
Starting flui	id load	l to be	recovered:	2052		VERY (BBL					
Fluid lost/re			-	2032		g oil rec to d t/recovered t				-	
Ending fluid						il recovered:				-	
IFL:		FFL:		FTP:		ii iecoveieu.		Fluid Rate:		Einal e	oil cut:
		· -	CTIMILI AT							-	
Base Fluid	ood.			ON DETAIL					COST		
	usea:			Job Type:					rd frac plug	-	\$2,400
Company:	_							Perforators	s LLCGB6	_	\$2,870
Procedure of	or Equ	ipment	t detail:					NPC	supervision		\$75
										-	
						-	•			-	
							•			•	
										-	<del></del>
							•			•	
-							•			•	-
-					·						
										•	<u> </u>
				<u> </u>			•			•	
Max TP:		May F	Rate:	Total fluid	nmnd.		•	<del></del>		•	
Avg TP:		•	Rate:	Total IIdid						•	
ISIP:			min:	Total Prop 10 min:	_	FG:	•	DAILY	OCT.	•	<b>OF 045</b>
		•				FG		DAILY C			\$5,345
Comple	uon S	uperv	or:	Gary Dietz	_			TOTAL W	ELL COST:		\$439,974



# ATTACHMENT G-1

7 of 10

# **DAILY COMPLETION REPORT**

Report Date: \_July 21, 2007

WELL NAME: Federal 1-20-9-16

Ope	ration:	Completion	on				Rig:	N	C #1	
				WELL S	TATUS					
Surf Csg:	`	<u>324'</u>	<u>-</u> .	Prod Csg:	5 1/2"	@	6029'	Csg	PBTD:	5929' WL
Tbg:	Size:	2 7/8" Wt:	6.5#	_Grd:J-5	5 Pkr <u>/E</u>	<u>от</u> @:	4313'			5230',4900
			1	PERFORATION	N PECOP	ח	_	BP/Sand	PBTD:	4740'
<u>Zone</u>		<u>Perfs</u>		#shots		one		<u>Perfs</u>		SPF/#shots
GB6 sds	41	60-4167'	4/28			<u> </u>		1 0113		SFFI#SHULS
D2 sds		80-4694'	4/56						_	
C sds LODC sds		80-4795'	<u>4/60</u>	<del></del>					_	
CP1 sds	_	<u>24-5138'</u> 26-5544'	<u>4/56</u> 4/72	<del></del>					_	
<del></del>		20-3344							_	
Date Work	Dorform	od: lub		ONOLOGICA	L OPERAT	<u>rions</u>				
		BJ Services & b	y 20, 2007	_			SITP:		SICP:	
III (@ 4101.	i og alspla	BOP. Talley, F aced 10 BW on oss. Hang back	TIH. KU pov	ver swivel. C/C	) sd to comn	osite nli	ua <i>@</i> 4250'	new 2 7/8 8i Drill out plu	d 6.5# g in 25	J-55 tbg. Tág minutes. Cir
	· .			LUID RECOV	/EDV (DDI	<u>C)</u>				
Starting flu	id load to	be recovered:	2052		g oil rec to d					
Fluid lost/re			172		recovered t				_	
Ending fluid			2224		l recovered:				_	
IFL:	FF	L:	. FTP:	Choke: _		Final	Fluid Rate:		_ _Final o	oil cut:
		STIMULAT	ION DETAI	<u>L</u>			<del>.</del>	COST	s	
Base Fluid	used:L	ightning 17	Job Type:	Sand	frac	_		NC #1 rig		\$5,452
Company:	BJ :	<u>Services</u>	<u>-</u>				Weath	erford BOF	_	\$250
Procedure of	or Equipm	ent detail:				_	BJ Serv	vices - GB6	- ;	\$20,906
							CD	wtr & truck	_ ·	\$520
780 g	als of 4%	Techni-Hib 76	67W "pre-pa	ad"		_	NI	PC fuel gas	- ;	\$100
<u>682 g</u>	als of fres	sh water space	er & Cross-li	nk		_		- FB fittings		\$300
2400	gals of pa	ad				_		ew J55 tbg	-	\$32,771
1875	gals W/ 1	-5 ppg of 20/4	0 sand				Na	bors swive	<b>-</b> 	\$750
3505	gals of 5-	8 ppg of 20/40	) sand				CD	wtr transfer		\$300
Flush	W/ 4074	gals of slick w	ater				Unichem	chemicals	<del>-</del> .	\$300
						_		rd "chomp" bit	-	\$1,450
						_	NPC sfc	equipment	- · t	\$130,000
Max TP:	1867 Ma	x Rate: <u>25 E</u>	BPM_Total	fluid pmpd:	317 bbls		Mecham lal	<del></del>		\$19,500
Avg TP:	1594 Av	g Rate: 24.9	BPM Total	Prop pmpd:	28,569#	_		supervision		\$300
	1545	5 min:	10 min:		FG: <u>.81</u>		DAILY C	OST:		\$212,899
Comple	tion Supe	ervisor:	<b>Gary Dietz</b>				TOTAL WE	LL COST:		\$652,873



# ATTACHMEN. G-1

8 of 10

#### DAILY COMPLETION REPORT

	Wille.		i cuei	ai 1-20	-3-10		Re	hour na	ite:	uly	<b>24</b> , <b>2</b> 007	_			Day: 4
Ope	eration:	· <u> </u>	Comple	tion							Rig:		NC #	<del>¥</del> 1	
						w	ELL ST	ATUS							-
Surf Csg:	8 5/8'	@ _	324'				Csg:	5 1/2"	' @	<u>@</u>	6029'	(	Csg PE	BTD:	5957.82'
Tbg:	Size:	2 7/3	8"	Wt:	3.5#	_Grd: .	J-55	Pk	cr <u>/EOT</u>	<b>@</b> : _	5819'	•	_	and	
						PERFC	RATIO	N REC	OBD						
<b>Zone</b>		<u> </u>	<u>Perfs</u>		SPF	/#shots	<del>ZICATIO</del>	IVICO	Zone			Perfs			SPF/#shots
GB6 sds		4160-4			4/28	3									<u>01 1 1#31106</u>
D2 sds	_	4680-4			4/56									•	
C sds LODC sds	_	4780-4 5124-5			4/60										
CP1 sds	_	5526-5		<del></del>	4/56					_					<del> </del>
							OCICAL		ATION						
Date Worl	k Perfo	rmed:	_	luly 23,		KUNUL	OGICAL	<u> OPER</u>	KATIO	<u> </u>	CITO.		01	ΔD.	
							I/I II - T	. Ell 6	40701	010	SITP:			CP:	
Fill @ 5145	7, C/Out	To Pla	@ 5230	بر 4740 . Drill Ub.	Pla. S	o Pig, Sw Swyl I/Hle	/VI/HIEI To Fill (	o FIII @ ର 5750'	94878', Drill &	C/O	ut To Pig @	4900', [	Drill Up זאייכאיז	Plg,	Swvl I/Hle T rc Well Clea
I HI, KIU S	SWVI, PC	JOH W/	'-5 Jts 11	od FOR	@ 581	9'. R/U 9	Swab. Ma	ade 15 :	Swah R	2nins	Recyred 1	77 Rhie	\A/fr Li	ita Tr	ca Cand Lit
Trce Oil, FF Recvery Fo	-L@ 16	00°, SVV	/I, 6:30PI	M C/SDF	Ň, Lo	st 123 Bl	bls Wtr C	n Drill C	Out To F	PBTI	D. Recvred	177 Bbls	Wtr S	wahh	ing, Total W
Starting fla	heol bi:	to be r	acovoro	d. 2		-	RECOVE							_	
Starting flu Fluid lost <u>/r</u>				d: <u>2</u> 54	224		Starting			_					
Ending flui				2170	<u>n</u>	_	Oil lost/r Cum oil			ay: _	<del></del>				
	urf	FFL:	1600'	FTP			noke:	recover		nal I	Fluid Rate:		 Fi	nal o	oil cut:
	TURI	NG DE	TΔII			PO	D DETA								
		TO DE	17412	_		<u>IXO</u>	<u> </u>	<u> </u>				NC #	OSTS 1 rig		\$5,060
										_	NPC S	Supervi	<u>_</u>	-	\$3,000
												erford E		-	\$225
										_		O Truc		-	\$630
			_	<del></del> -				<del></del>	<del></del> -	-	Monks			-	\$1,800
				<del></del>						_	NDSI W			-	\$3,000
		·							<del></del>		NPC Loc			-	\$300 \$300
				<del></del>					<del></del>	_		np-T/A-		-	\$2,055
·											Mtn Wes	•		-	\$600
· <del></del>						·				-		s Pwr S		-	·
										_	INADUI	3 FWI 3	10.00	-	\$850
										_				_	
			^						<del></del>	_				-	
Comple	etion S	upervi	sor:	Duane	Frest	ton.				_	DAILY C	OST:		-	\$14,820



# ATTACHMENT G-1

NC #1

9 of 10

Day: \_\_5

## **DAILY COMPLETION REPORT**

Report Date: July 25, 2007

Rig:

Federal 1-20-9-16

Completion

WELL NAME:

Operation:

		***	STATUS		
Surf Csg:		Prod Csg	:5 1/2" @	6029'	PBTD: 5957.82'
Tbg:	Size: 2 7/8" \	Vt: <u>6.5#</u> Grd: <u> </u>	I-55 Pkr <u>/EOT</u> @:	5614.97'	Sand 5957.82'
		DEDEODA:	TION DECORD		
Zone	<u>Perfs</u>	SPF/#shots	ION RECORD	D. 6	
GB6 sds		4/28	<u>Zone</u>	<u>Perfs</u>	SPF/#shots
D2 sds	4680-4694'	4/56		<del></del>	
C sds	4780-4795'	4/60			
LODC so		4/56	<del></del>		
CP1 sds		4/72			
		CHRONOLOGI	CAL OPERATIONS		
Date Wo	rk Performed: J	uly 24, 2007	DAL OF LIVATIONS	OITD.	OLOD
		o Fill @ 5952', R/U R/pmp		SITP:	SICP:
ropinp, Fi	sn ing vv/-60 bbis vvtr. i	og Production Detail Shown P/U Stroke & RIH W/- CDI- 6:30PM C/SDFN. Lost 87 BI	2 1/2x1 1/2x16x20' RI	HAC 6-1 1/2v25' W/ Bar	rs, 20-3/4x25' Guided
	•		:	!	1
			OVERY (BBLS)		
_	luid load to be recovered		ing oil rec to date:		_
	<u>/</u> recovered today:		st/recovered today:		_
IFL:	uid to be recovered:		oil recovered:		_
IFL:	FFL:	FTP: Choke	Final	Fluid Rate:	_Final oil cut:
	TUBING DETAIL	ROD DE	TAIL	COST	S
KB <u>= 1</u> ;	2.0			NC #1 rig	<del></del>
179 <u>Jts</u>	Tbg = 5506.29'			NPC Supervision	
T/A = 2	.80 @ 5518.29 KB		<del></del>	Weatherford BOP	
1 Jt T	bg = 30.52			NPC Trucking	
	.10 @ 5551.61' KB			141 O Tracking	<u> </u>
2 Jts	Tbg = 61.81'		<u>.</u>		
	15 @ 5614.97 KB				
<u></u>					
					_
		-			
Comp	letion Supervisor:	Duane Freston.		DAILY COST:	\$6,140
				<b>TOTAL WELL COST:</b>	\$673,833



# ATTACHMENT G-1 10 of 10

## **DAILY COMPLETION REPORT**

YVELL NAIVIE: Federal 1-20-9-16				Re <sub>l</sub>	port Date: <u>Ju</u> l	_	Day: 6	
Ope	ration:	Completion				Rig:	NC#	
		, <u> </u>		WELL ST	ATUS			
Surf Csg:	<u>8 5/8'</u> @	324'		Prod Csg:	5 1/2" @	6029'	Csg PB	TD: 5957.82'
Tbg:	Size:2 7/	<u>/8"</u> Wt: _	6.5#	_Grd: <u>J-55</u>	Pkr <u>/EOT</u> @	5614.97'		and 5957.82'
				PERFORATIO	N RECORD			
<b>Zone</b>	,	Perfs		#shots	Zone		<u>Perfs</u>	SPF/#shots
GB6 sds	4160-		4/28					<u> </u>
D2 sds	4680-		4/56					
C sds LODC sds	4780-4		4/60			<del>-</del>		
CP1 sds	5124- 5526-		4/56 4/72					
				ONOL OCICAL	OPERATIONS			
Date Work	Performed:	.lulv	<u>כחת</u> 25, 2007	ONOLOGICAL	OPERATIONS	_	010	ND.
				- MYOEL COME I D		SITP:		
Rig Pump, F	Fill Tbg W/-1 B	bl Wtr, Stroke	Unit & Tbo	74825' Guided R 1 To 800 Psi. Go	ods, 3/4X8'-6'-4'- od Test. R/D Eq	2' Ponys, 1 1 LR/D Rig PC	/2X26' Polish Ro >P @ 10:30AM	od, R/U Unit, R/
(Final Repo	ort)		`	,		,, 100 111g. 1 C	) @ 10.50AW,	120 GL, 5 GFN
		1						
	id load to be r ecovered toda		2257 1	_	oil rec to date: ecovered today:			
	d to be recove	ered: 2	258		recovered:			
IFL:	FFL: _	F	TP:	Choke:	Fina	I Fluid Rate:	Fin	al oil cut:
	<b>TUBING DE</b>	TAIL		ROD DETA	IL	<del></del>	COSTS	
KB <u>= 12.</u>	······································		1	1/2X26' Polisi	h Rod		NC #1 rig	\$2,493
179 <u>Jts T</u>	bg = 5506.29	· · · · · · · · · · · · · · · · · · ·	<u>3/4X</u>	2'-4'-6'-8' Ponys	<u> </u>	NPC	Supervision	\$300
T/A = 2.8	0 @ 5518.29	KB	100-3	3/4X25' Guided	Rods		ZHO	\$1,030
1 Jt Tb	g = 30.52		95-3/	4X25' Slick Ro	ds	NPC Frac T	Tnks 7x8 Dys	\$2,240
S/N <u>= 1.1</u>	0 @ 5551.61	KB	20-3/	4X25' Guided F	Rods	NPC Swab	Tnk 1x4 Dys	\$160
2 Jts T	bg = 61.81'		<u>6-1 1</u>	/2X25' Wt Bars	<b>.</b>	NPC	Frac Head	\$500
N/C <u>= .45</u>	@ 5614.97 k	(B	CDI-2	2 1/2X1 1/2X16	X20'	B/Grade	Rod String	\$10,004
***			RHA	C		CD W	Vtr Trucking	\$300
				*	<del></del>			<del> </del>
								·
Comple	tion Supervi	sor: Dua	ne Fresto	on.		DAILY C	OST:	\$17,027
						TOTAL WI	ELL COST:	\$690,860

## ATTACHMENT H

# WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1.		Set CIBP @ 4110'
2.	Plug #1	Set 100' plug on top of CIBP using 12 sx Class "G" cement
3.	Plug #2	168' balance plug using 19 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4.	Plug #3	120' balance plug using 14sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5.	Plug #4	Pump 43 sx Class "G" cement down 5 ½" casing to 374'

The approximate cost to plug and abandon this well is \$42,000.

12.2925

## FEDERAL 1-20-9-16

Spud Date: 05/16/07 Put on Production: 07/25/07

GL: 6038' KB: 6050'

Proposed P & A Wellbore Diagram

Cement Top @ 60'

Casing Shoe @ 324'

Initial Production: BOPD, MCFD, BWPD

#### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24#

LENGTH: 7 jts. (312.36')
DEPTH LANDED: 324.21' KB

HOLE SIZE:12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt, est 7 bbls cmt to surf.

## Pump 43 sx Class "G" Cement down 5-1/2" casing to 374'

#### PRODUCTION CASING

CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15.5#

LENGTH: 137 jts. (6015.83') DEPTH LANDED: 6029.08' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 325 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.

CEMENT TOP: 60'

120' balance plug using 14 sx Class "G" cement 60' above Uinta/Green River and extending 60' below (1493'-1613')

168' balance plug using 19 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale (2808'-2976')

#### 100' (12 sx) Class G Cement plug on top of CIBP

CIBP @ 4110' 4160-4167'

4680-4694

4780-4795'

5124-5138'

5526-5544

4 1 To 1

PBTD @ 5958'

SHOE @ 6029'

TD @ 6050

#### NEWFIELD

#### FEDERAL 1-20-9-16

617'FNL & 652' FEL

NE/NE Section 20-T9S-R16E

Duchesne Co, Utah

API #43-013-33066; Lease # UTU-52018



**GREGORY S. BELL** Lieutenant Governor

# State of Utah

### DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA Division Director

August 15, 2012

Newfield Production Company 1001 Seventeenth Street, Suite 2000 Denver, CO 80202

Subject: Greater Monument Butte Unit Well: Federal 1-20-9-16, Section 20, Township 9 South, Range 16 East,

SLBM, Duchesne County, Utah, API Well # 43-013-33066

#### Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

- 1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
- 2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
- 3. A casing\tubing pressure test shall be conducted prior to commencing injection.
- 4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
- 5. The top of the injection interval shall be limited to a depth no higher than 3,939 feet in the Federal 1-20-9-16 well.

A final approval to commence injection will be issued upon satisfactory completion of the listed stipulations. If you have any questions regarding this approval or the necessary requirements, please contact Mark Reinbold at 801-538-5333 or Brad Hill at 801-538-5315.

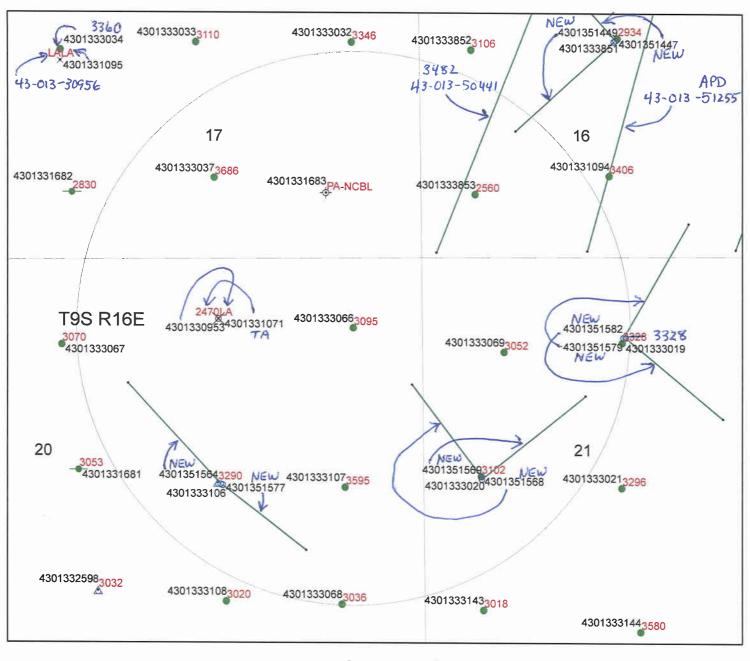
Associate Director

cc: Bruce Suchomel, Environmental Protection Agency Bureau of Land Management, Vernal **SITLA Duchesne County** Newfield Production Company, Myton

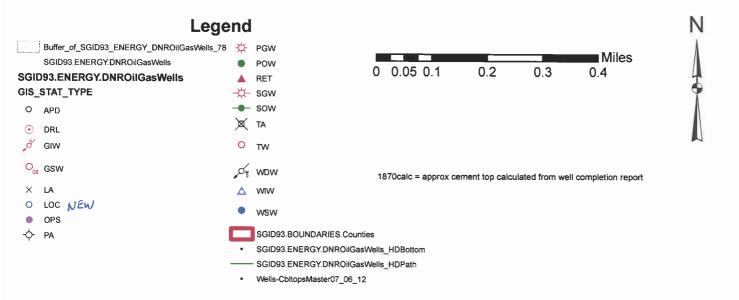
Well File

N:\O&G Reviewed Docs\ChronFile\UIC





Cement Bond Tops FEDERAL 1-20-9-16 API #43-013-33066 UIC 392.7



# DIVISION OF OIL, GAS AND MINING UNDERGROUND INJECTION CONTROL PROGRAM PERMIT STATEMENT OF BASIS

Applicant: Newfield Production Company	Well: <u>Federal 1-20-9-16</u>
<b>Location:</b> _20/9S/16E	<b>API:</b> 43-013-33066

Ownership Issues: The proposed well is located on BLM land. The well is located in the Greater Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM and the State of Utah. The Federal Government and the State of Utah are the mineral owners within the area of review (AOR). Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and lease holders in the half-mile radius. Newfield is the operator of the Greater Monument Butte Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

Well Integrity: The proposed well has surface casing set at 324 feet and has a cement top at the surface. A 5½ inch production casing is set at 6,029 feet. A cement bond log demonstrates adequate bond in this well up to about 3,095 feet. A 2 7/8 inch tubing with a packer will be set at 4,110 feet. Higher perforations will be opened at a later date. A mechanical integrity test will be run on the well prior to injection. On the basis of surface locations, there are 8 producing wells, 1 injection well, 1 temporarily abandoned well, and 1 P/A well in the AOR. In addition, there is 1 horizontal producing well with a surface location outside the AOR and a bottom hole location inside the AOR. There is also an approved surface location outside the AOR from which a horizontal well will be drilled to a bottom hole location inside the AOR. Finally, there are two proposed locations for directional wells with surface locations inside the AOR and bottom hole location outside the AOR and bottom hole location outside the AOR and bottom hole location inside. All of the existing wells have evidence of adequate casing and cement for the proposed injection interval.

Ground Water Protection: As interpreted from the Utah Geological Survey's DOE Project-Uinta Basin Water Draft Map (Paul B. Anderson, December 2, 2011), the base of moderately saline water (3000-10,000 mg/l TDS) is at a depth of approximately 2700 feet. Injection shall be limited to the interval between 3,939 feet and 5,958 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 1-20-9-16 well is 0.81 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,769 psig. The requested maximum pressure is 1,769 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

Federal 1-20-9-16 page 2

Oil/Gas& Other Mineral Resources Protection: The Board of Oil, Gas & Mining approved the Greater Monument Butte Unit on December 1, 2009. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

**Bonding:** Bonded with the BLM

Actions Taken and Further Approvals Needed: A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s):_	Mark Reinbold	Date	8/10/2012

# BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. UIC-392

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 12, 13, 15, 17, 19, 20, 21, 22, 23, 24, AND 25, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

# THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 17<sup>th</sup> Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

### Greater Monument Butte Unit:

- Monument Federal 22-12J well located in SE/4 NW/4, Section 12, Township 9 South, Range 16 East API 43-013-15796
- Federal 5-13-9-16 well located in SW/4 NW/4, Section 13, Township 9 South, Range 16 East API 43-013-32658
- Federal 13-15-9-16 well located in SW/4 SW/4, Section 15, Township 9 South, Range 16 East API 43-013-33136
- Federal 7-17-9-16 well located in SW/4 NE/4, Section 17, Township 9 South, Range 16 East API 43-013-33030
- Federal 1-19-9-16 well located in NE/4 NE/4, Section 19, Township 9 South, Range 16 East API 43-013-33062
- Federal 5-19-9-16 well located in SW/4 NW/4, Section 19, Township 9 South, Range 16 East API 43-013-33174
- Federal 1-20-9-16 well located in NE/4 NE/4, Section 20, Township 9 South, Range 16 East API 43-013-33066
- Federal 3-20-9-16 well located in NE/4 NW/4, Section 20, Township 9 South, Range 16 East API 43-013-33067
- Federal 5-20-9-16 well located in SW/4 NW/4, Section 20, Township 9 South, Range 16 East API 43-013-33104
- Federal 9-20-9-16 well located in NE/4 SE/4, Section 20, Township 9 South, Range 16 East API 43-013-33068
- Federal 9-21-9-16 well located in NE/4 SE/4, Section 21, Township 9 South, Range 16 East API 43-013-33145
- Monument Federal 31-21-9-16Y well located in NW/4 NE/4, Section 21, Township 9 South, Range 16 East API 43-013-31726
- Federal 1-22-9-16 well located in NE/4 NE/4, Section 22, Township 9 South, Range 16 East API 43-013-32612
- Federal 7-22-9-16 well located in SW/4 NE/4, Section 22, Township 9 South, Range 16 East API 43-013-33027
- Federal 3-23-9-16 well located in NE/4 NW/4, Section 23, Township 9 South, Range 16 East API 43-013-33176

Federal 11-23-9-16 well located in NE/4 SW/4, Section 23, Township 9 South, Range 16 East API 43-013-33178

Federal 15-23-9-16 well located in SW/4 SE/4, Section 23, Township 9 South, Range 16 East API 43-013-33182

Federal 3-24-9-16 well located in NE/4 NW/4, Section 24, Township 9 South, Range 16 East API 43-013-33084

Federal 15-24-9-16 well located in SW/4 SE/4, Section 24, Township 9 South, Range 16 East API 43-013-33344

Federal 21-25Y well located in NE/4 NW/4, Section 25, Township 9 South, Range 16 East API 43-013-31394

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 22<sup>nd</sup> day of May, 2012.

STATE OF UTAH

DIVISION OF OIL, GAS & MINING

Brad Hill

Permitting Manager

## **Newfield Production Company**

MONUMENT FEDERAL 22-12J, FEDERAL 5-13-9-16, FEDERAL 13-15-9-16, FEDERAL 7-17-9-16, FEDERAL 1-19-9-16, FEDERAL 5-19-9-16, FEDERAL 1-20-9-16, FEDERAL 3-20-9-16, FEDERAL 9-20-9-16, FEDERAL 9-21-9-16, MONUMENT FEDERAL 31-21-9-16Y, FEDERAL 1-22-9-16, FEDERAL 7-22-9-16, FEDERAL 3-23-9-16, FEDERAL 11-23-9-16, FEDERAL 23-23-9-16, FEDERAL 3-24-9-16, FEDERAL 21-25Y

#### Cause No. UIC-392

Publication Notices were sent to the following:

Newfield Production Company 1001 17th Street, Suite 2000 Denver, CO 80202

Uintah Basin Standard 268 S 200 E Roosevelt, UT 84066 via e-mail ubs@ubstandard.com

Salt Lake Tribune
P O Box 45838
Salt Lake City, UT 84145
via e-mail naclegal@mediaoneutah.com

Vernal Office Bureau of Land Management 170 S 500 E Vernal, UT 84078 SITLA 675 E 500 S Ste 500 Salt Lake City, UT 84102-2818

Duchesne County Planning P O Box 317 Duchesne, UT 84021-0317

Bruce Suchomel
US EPA Region 8
MS 8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129

Newfield Production Company Rt 3 Box 3630 Myton, UT 84052

Jan Sweet



# State of Utah

#### DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

May 22, 2012

Via e-mail legals@ubstandard.com

Uintah Basin Standard 268 South 200 East Roosevelt, UT 84066

Subject: Notice of Agency Action - Newfield Production Company Cause No. UIC-392

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please <u>notify me via e-mail of the date it will be published</u>. My e-mail address is: <u>jsweet@utah.gov</u>.

Please send proof of publication and billing to:

Division of Oil, Gas and Mining PO Box 145801 Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet

**Executive Secretary** 

Jean Sweet

**Enclosure** 



# Jean Sweet - Re: Notice of Agency Action - Newfield Production Company Cause No. UIC-392

From: Cindy Kleinfelter <classifieds@ubstandard.com>

To: Jean Sweet <jsweet@utah.gov>

**Date:** 5/23/2012 3:07 PM

Subject: Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-392

# On 5/22/2012 2:09 PM, Jean Sweet wrote:

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing to:

Division of Oil, Gas and Mining PO Box 145801 Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet, Executive Secretary Utah Div. of Oil, Gas & Mining 1594 West Temple, Suite 1210 Salt Lake City, UT 801-538-5329 jsweet@utah.gov

It will be in the May 29 edition. Thank you. Cindy



# State of Utah

#### DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

May 22, 2012

Via e-mail <u>naclegal@mediaoneutah.com</u>

Salt Lake Tribune P. O. Box 45838 Salt Lake City, UT 84145

Subject: Notice of Agency Action - Newfield Production Company Cause No. UIC-392

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please <u>notify me via e-mail of the date it will be published</u>. My e-mail address is: <u>isweet@utah.gov</u>.

Please send proof of publication and billing for account #9001402352 to:

Division of Oil, Gas and Mining PO Box 145801 Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet

**Executive Secretary** 

Jan Sweet

Enclosure



From:

"Fultz, Mark" <naclegal@mediaoneutah.com>

To:

<jsweet@utah.gov> 5/22/2012 2:32 PM

Date:

Subject:

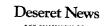
Proof for Notice of Agency Action

Attachments: OrderConf.pdf

AD# 794885 Run SL Trib 5/25/12 Cost \$331.25 Please advise of any changes Thank You Ken







Remit to: P.O. Box 704005 West Valley City, UT 84170

### Order Confirmation for Ad #0000794885-01

Client

DIV OF OIL-GAS & MINING

**Payor Customer** 

DIV OF OIL-GAS & MINING

**Client Phone** 

801-538-5340

Payor Phone

801-538-5340

Account#

**Payor Account** 

Address

1594 W NORTH TEMP #1210, P.O. BOX 145801 Payor Address

SALT LAKE CITY, UT 84114 USA

1594 W NORTH TEMP #1210, P.O. BOX

SALT LAKE CITY, UT 84114

Fax

801-359-3940

Ordered By

Acct. Exec

**EMail** 

earlenerussell@utah.gov

Jean

kstowe

**Total Amount** 

**Payment Amt** 

\$331.25 \$0.00

**Tear Sheets** 

**Proofs** 

PO Number

**Affidavits** 

**Amount Due** 

\$331.25

0

Newfield Prod UIC-392

**Payment Method Confirmation Notes:** 

Text:

Jean

Ad Type

Ad Size

Color

Legal Liner 3.0 X 87 Li

<NONE>

**Product** 

**Placement** 

Legal Liner Notice - 0998

05/25/2012

**Product** 

<u>Placement</u>

sltrib.com::

Salt Lake Tribune::

Scheduled Date(s):

Legal Liner Notice - 0998

Scheduled Date(s): 05/25/2012

**Product** utahlegals.com::

<u>Placement</u>

Scheduled Date(s):

utahlegals.com

05/25/2012

<u>Position</u>

Public Meeting/Hear-ing Notices

**Position** 

Public Meeting/Hear-ing Notices

**Position** 

utahlegals.com

**Order Confirmation** for Ad #0000794885-01

**Ad Content Proof Actual Size** 

05/22/2012 2:32:33PM

1

### **Order Confirmation** for Ad #0000794885-01

#### Ad Content Proof 135%

### BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. UIC-392

```
IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 12, 13, 15, 17, 19, 20, 21, 22, 23, 24, AND 25, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.
   THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.
  THE STATE OF DIAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITIED MATTER.

Notice is hereby giver that the Division of Oil, Gas and Mining (the "Division") is commercing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 17th Street, Suite 2000, Derver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for con-
   version to Class II injection wells:
Greater Morument Butte Unit:
   Monument Federal 22-121 well located in SE/4 NW/4, Section 12, Township 9 South, Range
   16 East
      API 43-013-15796
    Federal 5-13-9-16 well located in SW/4 NW/4, Section 13, Township 9 South, Range 16
   East
   Federal 13-15-9-16 well located in SW/4 SW/4, Section 15, Township 9 South, Range 16
   API 43-013-33136
Federal 7-17-9-16 well located in SW/4 NE/4, Section 17, Township 9 South, Range 16
   Federal 1-19-9-16 well located in NE/4 NE/4, Section 19, Township 9 South, Range 16
  East
   Federal 5-19-9-16 well located in SW/4 NW/4, Section 19, Township 9 South, Range 16
  Fast
     API 43-013-33174
  Federal 1-20-9-16 well located in NE/4 NE/4, Section 20, Township 9 South, Range 16 East API 43-013-33066
Federal 3-20-9-16 well located in NE/4 NW/4, Section 20, Township 9 South, Range 16 East API 43-013-33067
  Federal 5-20-9-16 well located in SW/4 NW/4, Section 20, Township 9 South, Range 16
  Federal 9-20-9-16 well located in NE/4 SE/4, Section 20, Township 9 South, Range 16 East
  API 43-013-33068
Federal 9-21-9-16 well located in NE/4 SE/4, Section 21, Township 9 South, Range 16 East
  Manument Federal 31-21-9-16Y well located in NW/4 NE/4, Section 21, Township 9 South,
  Range 16 East
API 43-013-31726
  Federal 1-22-9-16 well located in NE/4 NE/4, Section 22, Township 9 South, Range 16 East
 API 43-013-32612

Federal 7-22-9-16 well located in SW/4 NE/4, Section 22, Township 9 South, Range 16 East API 43-013-33027
 Federal 3-23-9-16 well located in NE/4 NW/4, Section 23, Township 9 South, Range 16 East
API 43-013-33176
 Federal 11-23-9-16 well located in NE/4 SW/4, Section 23, Township 9 South, Range 16
 East
     API 43-013-33178
 Federal 15-23-9-16 well located in SW/4 SE/4, Section 23, Township 9 South, Range 16
 East
 Federal 3-24-9-16 well located in NE/4 NW/4, Section 24, Township 9 South, Range 16 East API 43-013-33084
 Federal 15-24-9-16 well located in SW/4 SE/4, Section 24, Township 9 South, Range 16
    API 43-013-33344
 Federal 21-25Y well located in NE/4 NW/4, Section 25, Township 9 South, Range 16 East
    API 43-013-31394
 The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative
 Selected zones in the Green River Formation will be used for water injection. The maximum
 requested injection pressures and rates will be determined based on fracture gradient infor-
requested injection pressures and rates will be determined based at fracture gradient information submitted by Newfield Production Company.

Any person destring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, of P.O. Box 1 45801, Salt Lake City, UT 84114-5801, protest runber (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.
matter affects their interests.

Dated this 22rd day of May, 2012.
 STATE OF UTAH
DIVISION OF OIL, GAS & MINING
/s/Brad Hill
Permitting Manager
794885
```

UPAXLP

Sundry Number: 31191 API Well Number: 43013330660000

	FORM 9				
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING			5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-52018		
SUNDR	RY NOTICES AND REPORTS ON	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	posals to drill new wells, significantly dee reenter plugged wells, or to drill horizonta n for such proposals.		7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)		
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: FEDERAL 1-20-9-16		
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	DMPANY		9. API NUMBER: 43013330660000		
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT		IONE NUMBER: Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0617 FNL 0652 FEL			COUNTY: DUCHESNE		
QTR/QTR, SECTION, TOWNSH	<b>HIP, RANGE, MERIDIAN:</b> 20 Township: 09.0S Range: 16.0E Meridian	: S	STATE: UTAH		
11. CHEC	K APPROPRIATE BOXES TO INDICATE I	NATURE OF NOTICE, REPOR	T, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
The subject well he injection well on 1 State of Utah DOG above listed well. Opsig and charted for injecting during the	□ change to previous plans  Change well status □ deepen □ operator change □ production start or resume □ reperforate current formation □ tubing repair □ water shutoff □ wildcat well determination □ completed operations. Clearly show all plans been converted from a production of the converted concerning the converted concerning the converted to the casing was a state representative available.	ducing oil well to an nris Jensen with the he initial MIT on the pressured up to 1575 loss. The well was not s 150 psig during the	Accepted by the Utah Division of Oil, Gas and Mining Date: October 22, 2012		
NAME (PLEASE PRINT)	PHONE NUMBER	1			
Lucy Chavez-Naupoto  SIGNATURE	435 646-4874	Water Services Technician  DATE			
N/A		10/19/2012			

Sundry Number: 31191 API Well Number: 43013330660000

# Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company Rt. 3 Box 3630 Myton, UT 84052 435-646-3721

Witness:	Date 10/12/10 Time //:32 am pm
Test Conducted by: <u>เป็น เราน</u> Others Present:	
Others i resent.	
Well: Fileral 1-20-9-16	Field: Manument B-Ha
Well Location:	API No: 4301333066

<u>Time</u>	<b>Casing Pressure</b>	
0 min _ 5	1575	psig psig psig
10 - 15 - 20	1575	psig psig
25 30 min	1575	psig psig
35 40		psig psig
45 50		psig psig psig
55 60 min		psig
Tubing pressure:	150	psig
Result:	Pass	Fail

Signature of Witness:		g. f.
Signature of Per	son Conducting Test:	:

Sundry Number: 31191 API Well Number: 43013330660000 -2250--2000--1750--1500--1250-1000-750-500 CHART NO. MC M-2500-24HR DISC NO. METER\_ 6 PM TAKEN OFF CHART PUT NO M 4 8:51 BMT TIME 1/:30 A M DATE 10-12-12 LOCATION [1301 1-20-9-15 2 009 -091--1000

-1200-

-2000-

NOON

01

11

Sundry Number: 31191 API Well Number: 43013330660000
Summary Rig Activity Page 1 of 2

#### **Daily Activity Report**

Format For Sundry FEDERAL 1-20-9-16 8/1/2012 To 12/30/2012

10/4/2012 Day: 1

Conversion

Nabors #1608 on 10/4/2012 - MIRUSU. LD rods. Pressure test tbg. - RU pumping unit. Unseat rod pump. Flush tbg w/ 40 BW @ 250°. - Soft seat rods & fill tbg w/ 12 BW. Pressure tbg to 3000 psi. Pressure was dropping off slow. Pressure tbg to 5000 psi attempting to open hole bigger w/o success. - LD 215- 3/4" rods, ponies & polished rod on trailer. Flush tbg & rods w/ additional 20 BW during TOH. - X-over for tbg equipment. Tie drill line back single line. ND wellhead. TA was not set. NU BOPs. RU rig floor. - Flush tbg w/ 30 BW. Drop standing valve down tbg. Fill tbg & pressure test tbg to 3000 psi (good test). - RU sandline. RIH w/ fishing tool on sandline & retrieve. - MIRUSU. Hot oiler had pumped 60 bbls water down csg @ 250°.

Daily Cost: \$0

**Cumulative Cost:** \$8,328

10/5/2012 Day: 2

Conversion

Nabors #1608 on 10/5/2012 - TOH w/ tbg (talleying, breaking collars & applying Liquid-Oring to threads). LD 48- its tbg on trailer. - Release RBP & reset @ 4090'. Set pkr @ 4076' (above all perfs). Test to 4000 psi. Move tools to find GB6 sds. Locate perfs. Set RBP @ 4200'. Move pkr up hole to locate perfs. GB6 sds take fluid @ 3/4 bpm @ 1350 psi. There is a 18' correction some where (can't find in tally), Release PKR and leave Hang @ 3971'. - On standby waiting for possible frac schedule change. - On standby waiting for possible frac schedule change. - TOH w/ 134- jts 2 7/8" 6.5# 8rd EUE tbg (talley, breaking collars & applying Liquid O-ring to threads). TA kept hanging up on TOH. - TOH w/ 134- jts 2 7/8" 6.5# 8rd EUE tbg (talley, breaking collars & applying Liquid O-ring to threads). TA kept hanging up on TOH. - LD 48- its on tbg on trailer. Bottom 3- its had a lot of scale. - LD 48- its on tbg on trailer. Bottom 3- its had a lot of scale. - SWIFN. RU pump & pump lines. - SWIFN. RU pump & pump lines. - Held safety meeting & discussed JSA's. Open well w/ 0 psi on casing. RU perferators WLT & lubricator. RIH w/ gauge ring to 4720'. Perferate D1 sds @ 4636-39' w/ 3 spf for total of 9 shots. - Held safety meeting & discussed JSA's. Open well w/ 0 psi on casing. RU perferators WLT & lubricator. RIH w/ gauge ring to 4720'. Perferate D1 sds @ 4636-39' w/ 3 spf for total of 9 shots. - RU 5-1/2" "TS" RBP, on/off tool, 2-3/8" x 4' pup joint, "HD" pkr. PU Tally, drift & TIH w/ work string tbg. Set RBP @ 4670'. Set pkr @ 4645'. - RU 5-1/2" "TS" RBP, on/off tool, 2-3/8" x 4' pup joint, "HD" pkr. PU Tally, drift & TIH w/ work string tbg. Set RBP @ 4670'. Set pkr @ 4645'. - Tools won't test. Move pkr. Still won't test. - Tools won't test. Move pkr. Still won't test. - Release RBP & reset @ 4090'. Set pkr @ 4076' (above all perfs). Test to 4000 psi. Move tools to find GB6 sds. Locate perfs. Set RBP @ 4200'. Move pkr up hole to locate perfs. GB6 sds take fluid @ 3/4 bpm @ 1350 psi. There is a 18' correction some where (can't find in tally). Release PKR and leave Hang @ 3971'.

Daily Cost: \$0

**Cumulative Cost:** \$16,122

10/8/2012 Day: 4

Conversion

Nabors #1608 on 10/8/2012 - Frac D-1 Sands, FB, CO top of RBP and retrieve RBP. POOH. RBIH w/injection string. - Waith for acid truck from Multi-chem. - SWIFN. - Spot in pipe trailer and start LD pipe. LD 95 jts of 2 7/8" N-80 tbg. - Had to wair on semi trailer to LD pipe. Well still flowing after releasing the plug. - Release pkr, RD frac valve, RIH to latch on to RBP. Had to CO 15' of fill. Circ clean and released plug. - Open tbg up to FB on a 20 choke. Died down

Sundry Number: 31191 API Well Number: 43013330660000
Summary Rig Activity
Page 2 of 2

to 0 after 20 bbls. - Filled backside w/12 bbls and PU to 500 psi. Frac D-1 sands 4636-39'. RD frac crew, called runners for the tbg trailer. - Spot in frac crew and RU lines. Set pkr @ 4614'. - Safety Meeting, discussed location hazards, recent NFX incidents, job procedure, emergency plans, meeting point. - Move plug down to 4670' and plug up to 4662'. Pressure test plug to 4000 PSI. Good test. - RU Muti-chem and pump 2 Bbls acid. Pump 24 Bbls behind HCL to spot @ 4640'. Move PKR above perfs to 4608' and start breaking dwn zones. BD @ 3700 psi. Increased rate to .5 Bbl and pumped 5 bbls @ 1500 psi. shut down and pressurebled down to zero in less then a minute. - Waiting on frac crew.

Daily Cost: \$0

Cumulative Cost: \$84,384

#### 10/9/2012 Day: 5

Conversion

Nabors #1608 on 10/9/2012 - TIH w/ pkr. Test tbg. Set pkr. Test casing. RDMOSU. Well ready for MIT. - Held safety meeting & discussed JSA's. TIH w/ XN nipple, 2-3/8" x 4' pup jt, XO sub (2-7/8" t0 2-3/8"), "HD" pkr, On/Off tool, PSN, 133 jts 2-7/8" tbg. - Tighten well head bolts. Test casing to 1400 psi. Took 2 attempts. - Pump 20 bbls fluid. Drop STD vlve. Fill tbg w/ 12 bbls. Test tbg to 3000 psi for 30 min, took 3 attempts. - RDMOSU. Well ready for MIT. - Pump 50 bbls pkr fluid. Set pkr w/ 15,000#'s tension @ 4107' CEO. 4117' EOT. - Single line rig. RD BOP's. Hang tbg in well on 6' pup joint. - RU sand line & fish std valve.

Daily Cost: \$0

Cumulative Cost: \$113,603

#### 10/16/2012 Day: 6

Conversion

Rigless on 10/16/2012 - Conduct initial MIT - On 10/10/2012 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/12/2012 the casing was pressured up to 1575 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 150 psig during the test. There was not a State representative available to witness the test. **Finalized** 

Daily Cost: \$0

**Cumulative Cost:** \$190,137

**Pertinent Files: Go to File List** 

Sundry Number: 32105 API Well Number: 43013330660000

	FORM 9					
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-52018					
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:					
	oposals to drill new wells, significantl reenter plugged wells, or to drill horiz n for such proposals.			7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)		
1. TYPE OF WELL Water Injection Well				8. WELL NAME and NUMBER: FEDERAL 1-20-9-16		
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	OMPANY			<b>9. API NUMBER:</b> 43013330660000		
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT	, 84052 435 646-48		NE NUMBER:	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE		
4. LOCATION OF WELL FOOTAGES AT SURFACE:				COUNTY: DUCHESNE		
0617 FNL 0652 FEL QTR/QTR, SECTION, TOWNSI Qtr/Qtr: NENE Section: 2	HIP, RANGE, MERIDIAN: 20 Township: 09.0S Range: 16.0E Me	eridian: S	8	STATE: UTAH		
11. CHEC	K APPROPRIATE BOXES TO INDIC	CATE NA	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA		
TYPE OF SUBMISSION			TYPE OF ACTION			
	ACIDIZE	Па	LTER CASING	CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	С	HANGE TUBING	CHANGE WELL NAME		
	CHANGE WELL STATUS	□ c	OMMINGLE PRODUCING FORMATIONS	✓ CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	☐ FF	RACTURE TREAT	☐ NEW CONSTRUCTION		
11/13/2012	OPERATOR CHANGE	□ р	LUG AND ABANDON	PLUG BACK		
SPUD REPORT	PRODUCTION START OR RESUME		ECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
Date of Spud:	REPERFORATE CURRENT FORMATION	☐ sı	IDETRACK TO REPAIR WELL	TEMPORARY ABANDON		
	TUBING REPAIR	□ vi	ENT OR FLARE	WATER DISPOSAL		
DRILLING REPORT Report Date:	WATER SHUTOFF	□ sı	I TA STATUS EXTENSION	APD EXTENSION		
	WILDCAT WELL DETERMINATION	1 0	THED	OTHER: Put on Injection		
40.000000000000000000000000000000000000	WILDCAT WELL DETERMINATION		I I I I I I I I I I I I I I I I I I I			
	erence well was put on inje			Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
				November 19, 2012		
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUN 435 646-4874		TITLE Water Services Technician			
SIGNATURE			DATE			
N/A			11/15/2012			

RECEIVED: Nov. 15, 2012

#### FEDERAL 1-20-9-16

Spud Date: 05/16/07 Put on Production: 07/25/07

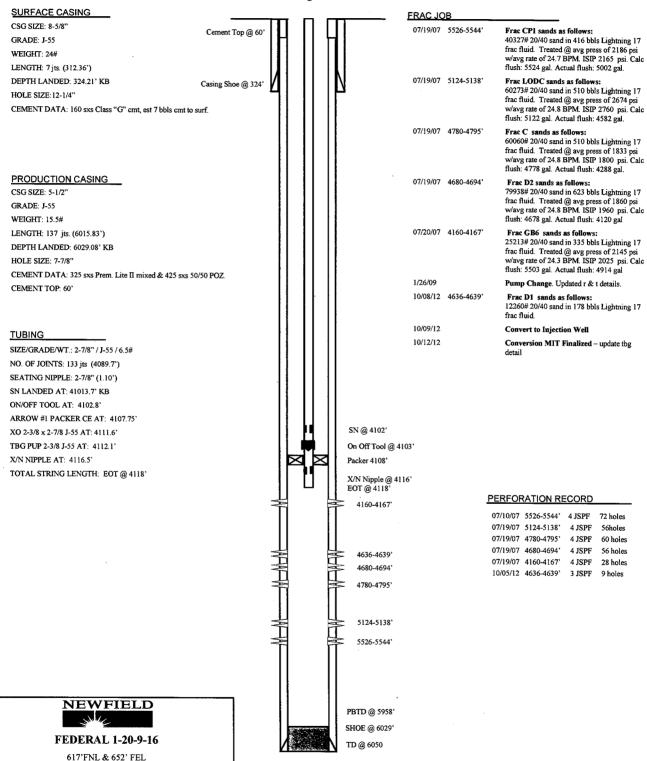
NE/NE Section 20-T9S-R16E

Duchesne Co, Utah

API #43-013-33066; Lease # UTU-52018

GL: 6038' KB: 6050'

Injection Wellbore Diagram





Governor

GREGORY S. BELL Lieutenant Governor

### State of Utah

#### DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER

Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA Division Director

### UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-392

**Operator:** 

Newfield Production Company

Well:

Federal 1-20-9-16

Location:

Section 20, Township 9 South, Range 16 East

County:

Duchesne

API No.:

43-013-33066

Well Type:

Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

Approval for conversion to Injection Well issued on August 15, 2012. 1.

Maximum Allowable Injection Pressure: 1,769 psig 2.

Maximum Allowable Injection Rate: (restricted by pressure limitation) 3.

Injection Interval: Green River Formation (3,939' - 5,958') 4.

Any subsequent wells drilled within a ½ mile radius of this well shall have 5. production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

Approved by:

Associate Director

JR/MLR/is

cc: Bruce Suchomel, Environmental Protection Agency

Bureau of Land Management, Vernal

Eric Sundberg, Newfield Production Company, Denver

Newfield Production Company, Myton

**Duchesne County** 

Well File

N:\O&G Reviewed Docs\ChronFile\UIC\Newfield



5/25/2012

### The Salt Lake Tribune



### Deseret News

PROOF (	OF PUBLICATION	CUSTOMER'S COPY			
	RECEIVED				
CUSTOMER NAME AN	D ADDRESS	ACCOUNT NUMBER	DATE		
DIV OF OIL-GAS & MINING,	ייטנ	9001402352	5/25/2012		
1594 W NORTH TEMP #1210 P.O. BOX 145801	DIN OF THE GASE MININ				
SALT LAKE CITY, UT 8	4114	BEFORE THE DIVISION OF OF DEPARTMENT OF NATUR	L GAS AND MINING		
No 512 20211		STATE OF U	TAH CY ACTION		
70 VIS 55066	ACCOUNT NAME	IN THE MATTER OF THE APPLICATION OF NEWFIELD	C-392		
Ledoral 1-20-9-16		TIVE APPROVAL OF CERTAIN WELLS LOCATED IN SE 23, 24, AND 25, TOWNSHIP 9 SOUTH, RANGE 16	ECTIONS 12, 13, 15, 17, 19, 20, 21, EAST, DUCHESNE COUNTY, UTAH, AS CL		
DIV OF	OIL-GAS & MINING,	II INJECTION WELLS.	A PUR ARRANGE DARWINGS AVAILABLE		
TELEPHONE	ADORDER#	Notice is hereby given that the Divisions of Oil, Go on informal adjudicative proceeding to consider the pany, 1001 17th Street, Suite 2000, Berner, Cc for administrative approval of the following wells:	e application of Newfield Production Colorado 80202, telephone 303-893-01		
		for administrative approval of the following wells version to Class II injection wells: Greater Monument Butte Units Monument Federal 22-121 well located in SE/4 N			
8015385340	0000794885	16 East API 43-013-15796			
	SCHEDULE	Federal 5-13-9-16 well located in SW/4 NW/4  East  API 43-013-32658			
		Federal 13-15-9-16 well located in SW/4 SW/ East			
Start 05/25/2012	End 05/25/2	API 43-013-33136 Federal 7-17-9-16 well located in SW/4 NE/4 East API 43-013-33030	, Section 17, Township 9 South, Range		
	CUST, REF. NO.	Federal 1-19-9-16 well located in NE/4 NE/4, East	Section 19, Township 9 South, Range		
Newfield I	Prod UIC-392	API 43-013-33062 Federal 5-19-9-16 well located in SW/4 NW/4 East API 43-013-33174	I, Section 19, Township 9 South, Range		
		Federal 1-20-9-16 well located in NE/4 NE/4, S APt 43-013-33066			
	CAPTION	Federal 3-20-9-16 well located in NE/4 NW/4, S API 43-013-33067			
BEFORE THE DIVIDION OF OUR OAR		Federal 5-20-9-16 well located in SW/4 NW/4  East  API 43-013-33104			
BEFORE THE DIVISION OF OIL, GAS	AND MINING DEPARTME	Federal 9-20-9-16 well located in NE/4 SE/4, Se API 43-013-33068			
	SIZE	Federal 9-21-9-16 well located in NE/4 SE/4, Se API 43-013-33145 Monument Federal 31-21-9-16Y well located in			
07	2.00	Range 16 East API 43-013-31726			
87 Li	ines 3.00	Federal 1-22-9-16 well located in NE/4 NE/4, Se API 43-013-32612 Federal 7-22-9-16 well located in SW/4 NE/4, S			
TIMES		API 43-013-33027 Federal 3-23-9-16 well located in NE/4 NW/4, 5			
3		API 43-013-33176 Federal 11-23-9-16 well located in NE/4 SW/- East API 43-013-33178	4, Section 23, Township 9 South, Rans		
MISC, CHARGES		Federal 15-23-9-16 well located in SW/4 SE/-	1, Section 23, Township 9 South, Ran		
MISC. CHARGES		AD API 43-013-33182 Federal 3-24-9-16 well located in NE/4 NW/4, S API 43-013-33084	Section 24, Township 9 South, Range 1		
		Federal 15-24-9-16 well located in SW/4 SE/ East	4, Section 24, Township 9 South, Ran		
		API 43-013-33344 Federal 21-25Y well located in NE/4 NW/4, Sed API 43-013-31394			
		The proceeding will be conducted in accordance Procedures.			
		Selected zones in the Green River Fermation will requested injection pressures and rates will be d matter submitted by Newfield Production Company	etermined based on fracture gradient		
		mation submitted by Newfield Production Company Any person destring to object to the application must file a written protest or notice of intervent lowing publication of this notice. The Division's P HII, Permitting Manager, at P.O. Box 145801, S ber (801) 538-5340, If such a protest or notice to produce the processing with the places.	n or otherwise intervene in the proce Ion with the Division within fifteen da		
	AFFIDAVIT OF PUBLICA	lowing publication of this natice. The Division's P.Hill, Permitting Manager, at P.O. Box 145801, S.	alt take City, UT 84114-5801, phone of intervention is received, a hearing		
		Protestants and/or interveners should be prepa			
NEWSPAPER AGENCY COMPANY, LLC dba MEDIA FORE THE DIVISION OF OIL, GAS AND MINING		Boled this 22nd day of May, 2012.			
USE NO. UIC-392. IN THE MATTER OF THE APPL	JCA FOR DIV OF OIL-GAS &	MIN DIVISION OF OIL, GAS & MINING			
MPANY, LLC dba MEDIAONE OF UTAH, AGENT FO GLISH LANGUAGE WITH GENERAL CIRCULATION	R THE SALT LAKE TRIBUNE AN	794865	U		
TICE IS ALSO POSTED ON UTAHLEGALS COM ON			D REMAINS ON		
AHLEGALS, COM INDEFINATELY		Language Comments of the Comme			
Start 05/25/2012	End 05/25/2	TOTAL STREET THE PROPERTY OF T	NIA CRAFT c. State of Utah		
DBLISHED ON		My Commiss	ion # 581469 ssion Expires		
Thial		Januar	y 1Z, 2014		
SNATURE		1110	7		

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION" PLEASE PAY FROM BILLING STATEMENT

Send Payments to: Uintah Basin Standard 268 S 200 E Roosevelt, Utah 84066

Phone: 435-722-5131 Fax: 435-722-4140





Invoice Number

Invoice Date

30968

5/30/2012

Advertiser No.

**Invoice Amount** 

**Due Date** 

2080

1

\$191.45

6/29/2012

DIVISION OF OIL GAS & MINING Rose Nolton 1594 W. N.TEMPLE STE 121 PO BOX 145801 SALT LAKE CITY, UT 84114-5801



1 1/2% fee will be charged to all past due balances.

**Amount Enclosed** 

Please detach top portion and return with your payment

#### INVOICE

			in A OICE					
Uintah Basir		rd	DIVISION OF OIL GAS & MINING			Invoice	No. 30968	5/30/2012
Date	Order		Description	Ad Size	9	SubTotal	Sales Tax	Amount
5/30/2012	15615	UBS	UBS Legal Notice: Not of Agcy Actn: Newfield Cause No. UIC-3 Pub. May 29, 2012	92			<u>,                                    </u>	\$191.45
							Sub Total:	\$191.45
· · · · · · · · · · · · · · · · · · ·				Total T	ransactions:	1	Total:	\$191.45

SUMMARY

Advertiser No.

2080

Invoice No.

30968

1 1/2% fee will be charged to all past due balances.

Thank You for your business!

Thank you for advertising with us, we appreciate your business!

### **AFFIDAVIT OF PUBLICATION**

County of Duchesne, STATE OF UTAH

/ Publisher

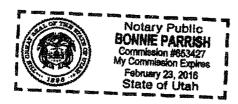
Subscribed and sworn to before me on this

------

,20 /2

by Kevin Ashby.

Notary Public



#### NOTICE OF AGENCY ACTION CAUSE NO. UIC-392

BEFORE THE DI-VISION OF OIL, GAS AND MINING, DE-PARTMENT OF NAT-URAL RESOURCES, STATE OF UTAH.

IN THE MATTER OF THE APPLICATION OF NEW-FIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 12.13.15.17.

Published May 22 and 29, 2012.

in advance of the hear-Planning at least 3 days call Duchesne County this meeting should commodations for needing special acutah.gov. Persons wpλqe@qncpcsue: Utah 84021 or email Box 317, Duchesne, County Planning, P.O. ments to: Duchesne 1151. Or, send com-Hyde at (435) 738mation contact Mike For further infor-

esne, Utah. Center Street, Duch-Building, 734 North County Administration Chambers, Duchesne PM in the Commission ing, beginning at 1:30 June 18, 2012 meet-#12-302 during their proposed Ordinance recommendation and Planning Commission lic hearing to review the ers will conduct a pub-County Commission-The Duchesne

restrict the numbers of livestock kept in residential areas,

### **LEGAL N**

### Your Right

Christensen, located on the south side of Highway 87 (loka Lane) and the west side of 4000 West, in the NE ¼ of the NE ¼ of Section 2, Township 3 South, Range 2 West.

The Duchesne County Commissioners will conduct a public hearing to review the Planning Commission recommendation and proposed rezone ordinance during their June 18, 2012 meeting, beginning at 1:30 PM in the Commission Chambers, Duchesne County Administration Building, 734 North Center Street, Duchesne, Utah.

For further information contact Mike

## SERET PO

### ATORY TECHNI CHEMIST

s an electrical utility states. We have at a Laboratory Tech a 500 MW coal-fiital, Utah.

candidate will be re le, and take independent on high pressure of PO2 scrubbers, demind potable water, and recandidate must also condensate polishers, bulk chemical handle proputer literate and software.

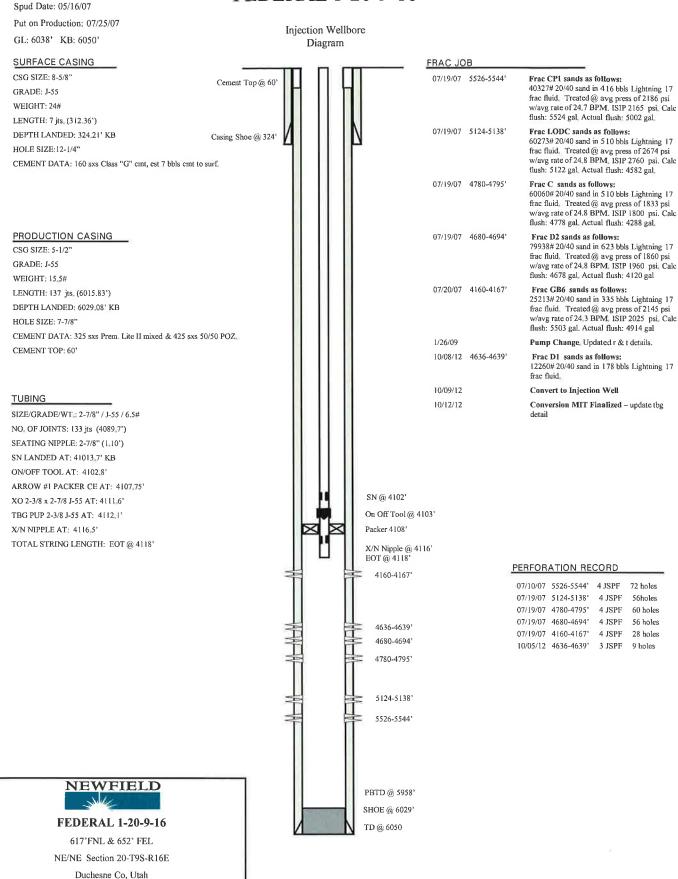
High School graduate experience as a jou nician in an industria Sundry Number: 37596 API Well Number: 43013330660000

STATE OF UTAH		FORM 9			
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING			5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-52018		
SUNDRY NOTICES AND REPORTS ON WELLS			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	posals to drill new wells, significantly dee reenter plugged wells, or to drill horizontal n for such proposals.		7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)		
1. TYPE OF WELL Water Injection Well			8. WELL NAME and NUMBER: FEDERAL 1-20-9-16		
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	DMPANY		<b>9. API NUMBER:</b> 43013330660000		
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT,		ONE NUMBER:	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0617 FNL 0652 FEL			COUNTY: DUCHESNE		
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NENE Section: 2	IIP, RANGE, MERIDIAN: 0 Township: 09.0S Range: 16.0E Meridian:	s	STATE: UTAH		
11. CHECI	K APPROPRIATE BOXES TO INDICATE N	IATURE OF NOTICE, REPOR	T, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	ALTER CASING CHANGE TUBING COMMINGLE PRODUCING FORMATIONS	☐ CASING REPAIR ☐ CHANGE WELL NAME ☐ CONVERT WELL TYPE		
✓ SUBSEQUENT REPORT Date of Work Completion: 10/12/2012	DEEPEN	FRACTURE TREAT PLUG AND ABANDON	□ NEW CONSTRUCTION □ PLUG BACK		
SPUD REPORT Date of Spud:		RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
	TUBING REPAIR	SIDETRACK TO REPAIR WELL VENT OR FLARE	☐ TEMPORARY ABANDON ☐ WATER DISPOSAL		
DRILLING REPORT Report Date:		SI TA STATUS EXTENSION	OTHER: New Perforations		
12 DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show all pe		<u>'</u>		
The above sub conversion. Attach	oject well had new perforations ed are the schematic and Daily tion was added in the Green Ri 4636-4639' 3 JSPF 9 holes	added during a Activity report. The	Accepted by the Utah Division of Oil, Gas and Mining Date: May 20, 2013		
			By: Daggell		
			Q C		
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician			
SIGNATURE N/A	700 070 7017	DATE 5/6/2013			

Sundry Number: 37596 API Well Number: 43013330660000

API #43-013-33066; Lease # UTU-52018

#### FEDERAL 1-20-9-16



LCN 10/18/12

Sundry Number: 37596 API Well Number: 43013330660000

Page 1 of 2 Summary Rig Activity

#### Daily Activity Report

Format For Sundry FEDERAL 1-20-9-16 8/1/2012 To 12/30/2012

10/4/2012 Day: 1

Conversion

Nabors #1608 on 10/4/2012 - MIRUSU. LD rods. Pressure test tbg. - RU pumping unit. Unseat rod pump. Flush tbg w/ 40 BW @ 250°. - Soft seat rods & fill tbg w/ 12 BW. Pressure tbg to 3000 psi. Pressure was dropping off slow. Pressure tbg to 5000 psi attempting to open hole bigger w/o success. - LD 215- 3/4" rods, ponies & polished rod on trailer. Flush tbg & rods w/ additional 20 BW during TOH. - X-over for tbg equipment. Tie drill line back single line. ND wellhead. TA was not set. NU BOPs. RU rig floor. - Flush tbg w/ 30 BW. Drop standing valve down tbg. Fill tbg & pressure test tbg to 3000 psi (good test). - RU sandline. RIH w/ fishing tool on sandline & retrieve. - MIRUSU. Hot oiler had pumped 60 bbls water down csg @ 250°.

Daily Cost: \$0

**Cumulative Cost:** \$8,328

10/5/2012 Day: 2

Conversion

Nabors #1608 on 10/5/2012 - TOH w/ tbg (talleying, breaking collars & applying Liquid-Oring to threads). LD 48- jts tbg on trailer. - Release RBP & reset @ 4090'. Set pkr @ 4076' (above all perfs). Test to 4000 psi. Move tools to find GB6 sds. Locate perfs. Set RBP @ 4200'. Move pkr up hole to locate perfs. GB6 sds take fluid @ 3/4 bpm @ 1350 psi. There is a 18' correction some where (can't find in tally). Release PKR and leave Hang @ 3971'. - On standby waiting for possible frac schedule change. - On standby waiting for possible frac schedule change. - TOH w/ 134- jts 2 7/8" 6.5# 8rd EUE tbg (talley, breaking collars & applying Liquid O-ring to threads). TA kept hanging up on TOH. - TOH w/ 134- jts 2 7/8" 6.5# 8rd EUE tbg (talley, breaking collars & applying Liquid O-ring to threads). TA kept hanging up on TOH. - LD 48- its on tbg on trailer, Bottom 3- its had a lot of scale. - LD 48- its on tbg on trailer. Bottom 3- its had a lot of scale. - SWIFN. RU pump & pump lines. - SWIFN. RU pump & pump lines. - Held safety meeting & discussed JSA's. Open well w/ 0 psi on casing. RU perferators WLT & lubricator. RIH w/ gauge ring to 4720'. Perferate D1 sds @ 4636-39' w/ 3 spf for total of 9 shots. - Held safety meeting & discussed JSA's. Open well w/ 0 psi on casing. RU perferators WLT & lubricator. RIH w/ gauge ring to 4720'. Perferate D1 sds @ 4636-39' w/ 3 spf for total of 9 shots. - RU 5-1/2" "TS" RBP, on/off tool, 2-3/8" x 4' pup joint, "HD" pkr. PU Tally, drift & TIH w/ work string tbg. Set RBP @ 4670'. Set pkr @ 4645'. - RU 5-1/2" "TS" RBP, on/off tool, 2-3/8" x 4' pup joint, "HD" pkr. PU Tally, drift & TIH w/ work string tbg. Set RBP @ 4670'. Set pkr @ 4645'. - Tools won't test. Move pkr. Still won't test. - Tools won't test. Move pkr. Still won't test. - Release RBP & reset @ 4090'. Set pkr @ 4076' (above all perfs). Test to 4000 psi. Move tools to find GB6 sds. Locate perfs. Set RBP @ 4200'. Move pkr up hole to locate perfs. GB6 sds take fluid @ 3/4 bpm @ 1350 psi. There is a 18' correction some where (can't find in tally). Release PKR and leave Hang @ 3971'.

**Daily Cost:** \$0

Cumulative Cost: \$16,122

10/8/2012 Day: 4

Conversion

Nabors #1608 on 10/8/2012 - Frac D-1 Sands, FB, CO top of RBP and retrieve RBP. POOH. RBIH w/injection string. - Waith for acid truck from Multi-chem. - SWIFN. - Spot in pipe trailer and start LD pipe. LD 95 jts of 2 7/8" N-80 tbg. - Had to wair on semi trailer to LD pipe. Well still flowing after releasing the plug. - Release pkr, RD frac valve, RIH to latch on to RBP. Had to CO 15' of fill. Circ clean and released plug. - Open tbg up to FB on a 20 choke. Died down

Sundry Number: 37596 API Well Number: 43013330660000 Summary Rig Activity

Page 2 of 2

to 0 after 20 bbls. - Filled backside w/12 bbls and PU to 500 psi. Frac D-1 sands 4636-39'. RD frac crew, called runners for the tbg trailer. - Spot in frac crew and RU lines. Set pkr @ 4614'. - Safety Meeting, discussed location hazards, recent NFX incidents, job procedure, emergency plans, meeting point. - Move plug down to 4670' and plug up to 4662'. Pressure test plug to 4000 PSI. Good test. - RU Muti-chem and pump 2 Bbls acid. Pump 24 Bbls behind HCL to spot @ 4640'. Move PKR above perfs to 4608' and start breaking dwn zones. BD @ 3700 psi. Increased rate to .5 Bbl and pumped 5 bbls @ 1500 psi. shut down and pressurebled down to zero in less then a minute. - Waiting on frac crew.

Daily Cost: \$0

**Cumulative Cost:** \$84,384

#### 10/9/2012 Day: 5

Conversion

Nabors #1608 on 10/9/2012 - TIH w/ pkr. Test tbg. Set pkr. Test casing. RDMOSU. Well ready for MIT. - Held safety meeting & discussed JSA's. TIH w/ XN nipple, 2-3/8" x 4' pup jt, XO sub (2-7/8" t0 2-3/8"), "HD" pkr, On/Off tool, PSN, 133 jts 2-7/8" tbg. - Tighten well head bolts. Test casing to 1400 psi. Took 2 attempts. - Pump 20 bbls fluid. Drop STD vlve. Fill tbg w/ 12 bbls. Test tbg to 3000 psi for 30 min, took 3 attempts. - RDMOSU. Well ready for MIT. - Pump 50 bbls pkr fluid. Set pkr w/ 15,000#'s tension @ 4107' CEO. 4117' EOT. - Single line rig. RD BOP's. Hang tbg in well on 6' pup joint. - RU sand line & fish std valve.

Daily Cost: \$0

**Cumulative Cost:** \$113,603

#### 10/16/2012 Day: 6

Conversion

Rigless on 10/16/2012 - Conduct initial MIT - On 10/10/2012 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/12/2012 the casing was pressured up to 1575 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 150 psig during the test. There was not a State representative available to witness the test. **Finalized** 

Daily Cost: \$0

**Cumulative Cost:** \$190,137

**Pertinent Files: Go to File List**